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EGYPT'S PETROLEUM SECTOR AN INTEGRATED FIVE-YEAR PLAN (2026 - 2030)

IRAN WAR AND THE GLOBAL ENERGY EQUATION

EGYPT'S PETROLEUM SECTOR 2025 ACHIEVEMENTS

TALENT & TECHNOLOGY

TECHNOLOGY APPLICATIONS

INDUSTRY AT A GLANCE

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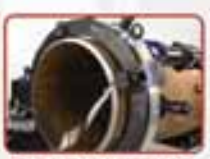
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EGYPT'S STRATEGIC ENERGY STORAGE HUB

Recently Egypt has solidified its position as a Regional Energy Hub, focusing heavily on expanding its oil and gas storage capacity to bridge the gap between Mediterranean production and European/Asian markets.

The strategy shifted from simple domestic storage to strategic transit infrastructure, utilizing Egypt's unique geography (Suez Canal and SUMED pipeline).

Egypt has developed massive «tank farms» to facilitate the trading and blending of crude oil and petroleum products in many ways.

Starting with the Mediterranean terminal of the SUMED pipeline has seen a massive expansion. It now serves as a critical storage and distribution point for Gulf crude heading to Europe.

In Ain Sokhna (Red Sea) the area has been transformed into a major hub for Liquid Bulk storage. Recent projects include specialized terminals for Fuel Oil, Gas Oil, and LPG (Liquefied Petroleum Gas) to ensure domestic energy security and regional bunkering services.

Regarding the refining capacity development's Egypt upgraded Mostorod Petroleum Complex with modern digital storage monitoring systems to feed the Cairo Oil Refining Company, the largest in Africa.

On the otherhand late in 2026, Egypt is piloting «Green Ammonia» storage tanks in the Suez Canal Economic Zone (SCZONE). This is a pivot toward the future of energy, aiming to store zero-carbon fuels produced from Egypt's wind and solar farms for export to the EU.

This infrastructure acts as a «strategic reserve.» During the price volatility caused by regional conflicts in late 2025, Egypt's expanded storage allowed it to maintain stable domestic pump prices despite global market swings.

All of these shifts reflecting the future vision of the Egypt's political leadership and the insistance on this smart strategic move. Ilt shows the government is working hard to navigate current market conditions and revive the Suez Canal corridor, even stretching from the Mediterranean down to mid-Red Sea at Yanbu. Storage close to maior chokepoints can reduce costs, give flexibility to traders, and support regiona flows, all while strengthening Egypt›s position as a Key energy hub.

Finally, the Egypt Energy show 2026 is one of the main oil, gas & energy shows & petroleum today team as usual will take this opportunity to achieve excellence & be along side with great focus on the inspirational stories of the event.

In the end, greetings to you, Egypt has pride and dignity

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NEWS

Holding Company for Petrochemicals Approves 2026–2027 Budget and Invests $11 Billion in 10 New Projects by 2030

Badawi, Minister of Petroleum and Mineral Resources, chaired the General Assembly meeting of the Egyptian Petrochemicals Holding Company to approve the planning budget for the fiscal year 2026–2027, attended by sector leaders.

The Minister emphasized the importance of directing the petrochemical industry to meet priority local market needs, while simultaneously targeting global markets. This approach supports the localization of new industries, reduces the import bill, boosts exports, and creates job opportunities. He stressed adherence to timelines for new projects, particularly the Red Sea Petrochemical Complex in Ain Sokhna, as one of the largest promising industrial ventures.

10 Strategic Projects with 7.5 Million Ton Capacity

Chemist Alaa Abdel Fattah, Chairman of the Egyptian Petrochemicals Holding Company, presented the five-year plan 2026–2030, which includes implementing 10 new projects to produce over 20 petrochemical products, with a total capacity reaching 7.5 million tons annually, and investments estimated at approximately $11 billion.

Key New Projects and Expansions

- Soda Ash, Silicon, and their derivatives project in New Alamein.
- Methanol derivatives project in Damietta.
- Alexandria Supply Chains Company project to provide ethane and gas derivatives.

- Styrene, Polyvinyl Chloride (PVC), and Sustainable Aviation Fuel production projects in Alexandria.
- Bioethanol and Green Ammonia projects in Damietta.
- Development of existing projects, including Wood Technology Company (Wotech), and expansions of MOPCO, Sidi Kerir Petrochemicals, and Egyptian Petroleum and Petrochemicals companies.

4.2 Million Tons Production in 2025 and Exports to Over 50 Countries

Total production of Egypt's petrochemical sector reached approximately 4.2 million tons during 2025, with products exported to more than 50 countries worldwide, reflecting the sector's growing capabilities and its role in supporting the national economy.

Egypt and TotalEnergies Discuss Project to Connect Cyprus's Kronos Field to Gas Infrastructure

Engineer Karim Badawi, Minister of Petroleum and Mineral Resources, met with Pascal Briant, General Manager of TotalEnergies in Egypt and Cyprus, to discuss enhancing cooperation in the natural gas sector and follow up on developments regarding the project to connect Cyprus's "Kronos" field to Egyptian infrastructure, in partnership with Eni.

Enhancing Egypt's Position as a Regional Gas Hub

The meeting reviewed the upcoming executive steps for the regional gas transmission project, which represents a model of regional integration in maximizing the utilization of gas resources and available infrastructure, supporting Egypt's position as a regional gas trading hub. The meeting was attended by Engineer Sayed Selim, Executive Managing Director of EGAS, and senior officials from the Ministry of Petroleum.

Ministry of Petroleum Announces Successful Drilling of First Gas Exploration Well for Shell in the Mediterranean During 2026

The Ministry of Petroleum and Mineral Resources announced the successful drilling of the first natural gas exploration well for Shell in the Mediterranean during 2026, as part of the company's plan to expand exploration and production activities in its concession areas.

This achievement falls within the petroleum sector's strategy to increase domestic gas production and enhance exploration and research activities in partnership with major international companies, supporting Egypt's position as a regional energy hub.

Elab Achieves Highest Production Rate of LAB Since Establishment, Plans to Increase Storage Capacity and Production Capacity

Engineer Karim Badawi, Minister of Petroleum and Mineral Resources, commended the Egyptian Linear Alkyl Benzene Company "Elab" during the General Assembly meeting to approve the fiscal year 2025 business results, attended by leaders from the petroleum and petrochemical sectors.

The Minister affirmed that "Elab" represents a distinguished model among petroleum sector companies, providing high-value products that feed into multiple industries, achieving significant economic returns through exports to various countries worldwide, while meeting growing demand in the local market. He stressed the necessity of adhering to the highest safety and occupational health standards given the nature of the industry, praising the company's future vision and expansion plans.

Record Achievements in Production and Marketing

Dr. Ayman El-Garem, Chairman of Elab Company, reviewed the business results, confirming the company's success in achieving the highest production rate of LAB (Linear Alkyl Benzene) since operations began in 2008, with production reaching approximately 141,000 tons, while maintaining the highest safety and environmental protection standards.

LAB product serves as the primary raw material for the detergent industry, and the company has successfully marketed all its products by covering local market needs and exporting surplus to Western European, African, and Asian markets.

Expansion Plans to Increase Production and Value Addition

The company is currently working on a project to increase LAB production capacity, reflecting its commitment to meeting local and global market needs and enhancing Egypt's position as a major player in the petrochemical industry. The company has increased its production capacity to 141% of design capacity.

Coordination has also been made with the Egyptian General Petroleum Corporation to increase kerosene quantities, enabling the conversion of approximately 80% of kerosene used as feedstock into jet fuel conforming to international specifications, maximizing value addition.

As part of the transition towards clean energy, the company's administrative building has been transformed into a fully "green building" through a solar power plant with a capacity of 465 kW, reducing reliance on traditional energy sources.

NEWS

Ethydco Achieves Record Production of Ethylene and Polyethylene with Sales Exceeding EGP 5.7 Billion and $211 Million

Engineer Karim Badawi, Minister of Petroleum and Mineral Resources, praised the products of the Egyptian Ethylene and Derivatives Company "Ethydco," affirming their competitiveness in global markets, during the General Assembly meeting to approve the fiscal year 2025 business results.

The Minister emphasized that Ethydco's products represent a distinguished Egyptian model and serve as an ambassador for the petrochemical sector abroad, reflecting the sector's advanced industrial and technological capabilities, particularly in producing ultra-high-quality polyethylene products, contributing to the localization of this important industry within Egypt.

Record Performance and Expansion in Global Markets

Chemist Hisham Riyad, Chairman of Ethydco Company, reviewed the performance indicators, explaining that the Ministry's directives to secure the company's plants' requirements of gas, ethane, and propane mixture enabled it to achieve its production plan at 102%, with production reaching 302,000 tons of ethylene and 305,000 tons of polyethylene, which is used in manufacturing water, drainage, and gas pipes, and numerous plastic products.

Local market and export sales value exceeded EGP 5.7 billion, along with dollar-denominated sales reaching $211.8 million, achieving export sales growth of 5.4%, driven by expansion in Latin American markets, particularly Brazil, in addition to African, European, and Turkish markets. The company's products meet the needs of more than 40 industrial complexes within Egypt.

New Innovations and International Certifications

As part of the innovation drive, Ethydco introduced a new polyethylene product for blow molding applications, supporting key industries such as motor oil containers and other products requiring high-quality, durable packaging.

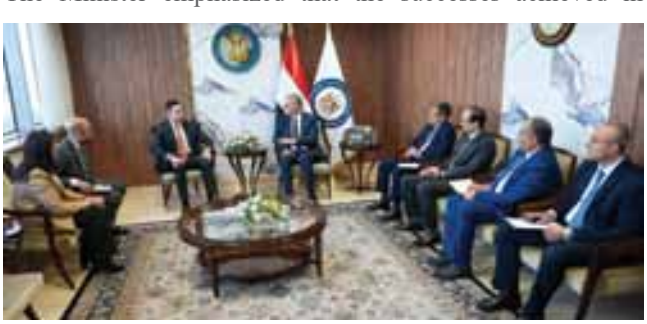
The company also developed a new polyethylene product for coating steel pipes, providing additional protection against corrosion and environmental factors. It has obtained certification from the German SKZ institution, expanding its application scope in water, gas, drainage, and infrastructure projects.

Minister of Petroleum Discusses with Harbour Energy Developments in Increasing Gas Production from Disouq Field

Engineer Karim Badawi, Minister of Petroleum and Mineral Resources, met with Engineer Sameh Sabry, Regional Executive Director for the Middle East and North Africa at the British company Harbour Energy, to follow up on the company›s activities in Egypt, particularly in gas and condensates production from the Disouq field in the Delta, along with joint work plans with BP, the main operator of the West Nile Delta and North Alexandria fields.

Incentive Measures Revitalize Investments

The Minister emphasized that the successes achieved in the Disouq area are the fruitful outcome of the incentive measures implemented by the Ministry, which contributed to revitalizing investment and well drilling, and overcoming natural production decline. He stressed the regularity of monthly partner dues payment and the reduction of previous arrears, which enhances investment injection to increase domestic production.



Promising Gas Discovery and Production Increase to 14,000 Barrels Per Day

Engineer Sameh Sabry reviewed work developments, pointing to a recent promising gas discovery, with the first well «Ez» having been brought on stream, the imminent commissioning of the second well, and a plan to drill more wells. He explained that production has risen to approximately 14,000 barrels of oil equivalent per day, driven by incentives that encouraged the company to accelerate investment decisions in this low-cost onshore area, while studying the potential for discovering crude oil for the first time.

New Wells Boost Gas Production in Egypt: West El Burullus Output Jumps to 70 MMscf/day and Promising Discoveries in the Western Desert

Within the framework of implementing the Ministry of Petroleum and Mineral Resources' strategy to increase domestic production through intensifying drilling and exploration activities, the petroleum sector has succeeded in adding new wells to the gas production map in the Mediterranean and the Western Desert.

Record Production at West El Burullus Field

In the Mediterranean, the second well in the West El Burullus field (Cheiron investments) has been brought on stream via Burullus Gas Company facilities, raising the field›s production from 25 to 37 MMscf/day. Production is planned to increase to more than 70 MMscf/day once the third well is connected within days. Drilling of the fourth well has been completed with promising results, pending its testing, and the plan includes drilling two additional wells on the «Papyrus» platform to maximize utilization of the area's resources.

New Discoveries in the Western Desert

In the Western Desert, Badr El Din Petroleum Company (Bapetco) continues its development plan, having successfully drilled well BED 15 - 35 as a follow-up to the BED 15 - 31 discovery. Production tests showed rates ranging between 10 and 15 MMscf/day of gas, with 300 to 650 barrels per day of condensates, contributing to raising the area's proven reserves from 15 to approximately 25 Bcf of gas. An additional four production wells are scheduled to be drilled in the concession area, supporting the Ministry's efforts to reduce the import bill and enhance energy security.

Minister of Petroleum Praises Petroleum Marine Services Company's 2025 Business Results and Directs Enhancement of Strategic Partnerships

Engineer Karim Badawi, Minister of Petroleum and Mineral Resources, praised the distinguished results achieved by Petroleum Marine Services Company (PMS) during 2025, during the General Assembly meeting to approve the business results, commending its efficiency in executing complex offshore projects according to the highest standards and specified timelines.

Promising Opportunities in the Mediterranean

The Minister affirmed that the current phase offers promising opportunities for the company, especially with the intensification of gas exploration activities in the Mediterranean, noting that the current year will witness the drilling of the largest number of offshore wells, requiring early preparation to maximize benefit from these opportunities. He directed the necessity of investing the company's capabilities and marine fleet in building strategic partnerships with exploration and production companies, to participate in development and production phases, and expand into Eastern and Western Mediterranean markets.

Record Results and Revenues Exceeding $261 Million

Engineer Amr Badawi, Chairman of the company, reviewed the business results, with PMS achieving total revenues of $261.5 million, including $129 million for development projects, and $132.6 million for inspection, maintenance, and support services for drilling and production operations, with notable growth in operating profits and net profit.

Major Projects and Regional Expansion

The company executed strategic projects during 2025, most notably the eleventh phase of the West Delta Deep Marine gas field development, development of the West El Burullus offshore field, North Safa and Zafarana fields in the Gulf of Suez, and development of the UGDC jetty in Damietta to receive the regasification vessel. Within the framework of external expansion, the company opened a branch in Saudi Arabia and registered with Aramco and KJO, with completion of UAE branch registration within two months.

New Contracts Valued at $310.7 Million

PMS succeeded in obtaining 44 new contracts valued at $310.7 million, exceeding last year's contract value ($191 million), reflecting growing customer confidence. The marine fleet is being developed, supported by a multi-purpose unit and a specialized deep-water barge, to enhance competitive capabilities in executing new projects.

NEWS

Minister of Petroleum Follows Up with Chevron on Enhancing Coordination to Finalize Agreements for Connecting Cyprus's Aphrodite Field to Egypt

Engineer Karim Badawi, Minister of Petroleum and Mineral Resources, held a video conference meeting with Basil Allam, Manager of Chevron in Cyprus, to follow up on coordination regarding the project to connect the Cypriot Aphrodite gas field to Egyptian infrastructure, in preparation for its re-export to foreign markets.

Enhancing Egypt's Role as a Regional Energy Hub

The Minister emphasized the project's importance in strengthening Egypt's position as a regional gas trading hub, maximizing the utilization of its infrastructure, and supporting the optimal exploitation of gas resources to contribute to energy security. He stressed the necessity of working with a team spirit and consolidating efforts to accelerate executive procedures, achieving mutual benefit within the framework of a long-term strategic partnership.

Progress in Preparing Key Agreements

The meeting reviewed the progress made in preparing the project's key agreements through technical and legal working teams, with agreement to intensify efforts and continue meetings during the upcoming period to complete the necessary procedures and finalize the agreements at the earliest possible opportunity.

Minister of Petroleum Discusses Increasing Investments with UK's Capricorn Energy Chairman

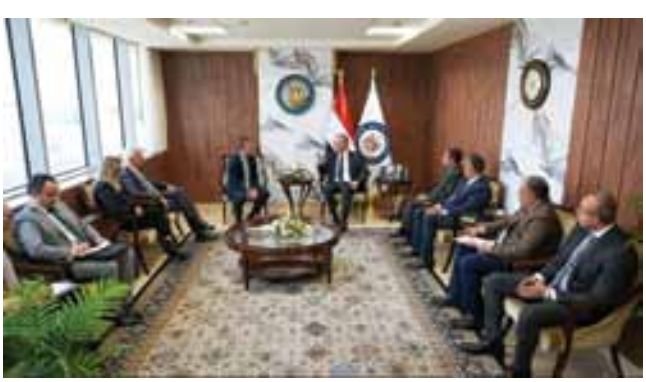
Engineer Karim Badawi, Minister of Petroleum and Mineral Resources, held discussions with a high-level delegation from the British company Capricorn Energy, which included CEO Randy Neely, Chief Operating Officer Geoff Probert, and Dr. Elinor Rowley, General Manager of Capricorn Egypt, to follow up on the company's activities in its concession areas in the Western Desert and review its plans to increase production.

A New Phase to Enhance Investor Confidence

The Minister praised the company's commitment to its operations in Egypt, affirming that the Ministry is proceeding with implementing a new phase aimed at enhancing partner confidence and increasing investment flow, through regular settlement of dues, providing updated geological data, and offering new investment opportunities. He also noted the nearing completion of more flexible contractual models to support horizontal drilling and hydraulic fracturing technologies, and the provision of incentives to increase oil production in accordance with the approved five-year plan.

Long-Term Strategy to Double Operations

Randy Neely affirmed the company's commitment to enhancing its investments in the Western Desert, pointing out that the development witnessed in the Egyptian energy sector, and the constructive cooperation with the Ministry and the General Petroleum Corporation in overcoming challenges, has encouraged the company to adopt a long-term strategy to double the volume of its operations in Egypt, benefiting from the advanced infrastructure and distinguished human capabilities.



South Valley Petroleum Approves 2026–2027 Budget with $33 Million Investments and Drilling of 5 Exploration Wells

Engineer Karim Badawi, Minister of Petroleum and Mineral Resources, approved the investment budget of South Valley Egyptian Holding Company for Petroleum for the fiscal year 2026–2027, during the company's Ordinary General Assembly meeting, attended by governors and sector leaders.

The company targets achieving revenues exceeding EGP 4 billion and net profits surpassing EGP 1 billion, while continuing exploration and production efforts through an ambitious plan that includes drilling 5 exploration wells with investments estimated at approximately $33 million.

Seismic Survey Covering 100,000 km², Results to Be Unveiled at EGYPS 2026

The petroleum sector continues to implement the largest 2D seismic survey project in the West Nile and South Western Desert areas, covering approximately 100,000 square kilometers, in preparation for offering these virgin areas for investment for the first time. The Minister announced the completion of survey operations in Area (B) west of Assiut, covering 15,000 square kilometers, with final results to be presented to investors during the Egypt International Energy Conference (EGYPS 2026).

Global Red Sea Bid Round Attracts Major Companies

Engineer Ashraf Bahaa, Chairman of South Valley Egyptian Holding Company for Petroleum, revealed the global bid round for oil and gas exploration in the Red Sea, announced in November 2025, which includes 4 sectors with a total area of 23,450 square kilometers, with the bidding deadline set for next May. He noted that several international companies have expressed interest in investing, reflecting investor confidence in the Egyptian petroleum sector, particularly given the state's commitment to regularly settling dues to foreign partners.

16 Investment Opportunities and 8 Active Agreements

The company currently operates through 8 oil and gas exploration and production agreements covering 37,000 square kilometers, alongside offering 16 investment opportunities through the Egypt Upstream Gateway (EUGP). Bahaa affirmed that the ongoing seismic survey in the West Nile and South Western Desert areas will open new horizons for investment, with data processing commencing for Area (B) west of Assiut to obtain preliminary indicators during March, and preparations underway to conduct the survey in the Dakhla area.

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Both partnerships mark an important milestone in our commitment to provide high-quality, reliable, and innovative equipment solutions to our clients across various industries

Minister of Petroleum: ETHYDCO's Products Represent an Egyptian Model Capable of Competing Globally

During the General Assembly of the Egyptian Ethylene and Derivatives Company (ETHYDCO) to approve the company's 2025 results, Eng. Karim Badawi, Minister of Petroleum and Mineral Resources, affirmed that the company's products represent a distinguished Egyptian model capable of competing in global markets, reflecting the advanced industrial and technological capabilities of Egypt's petroleum and petrochemicals sector. He noted that ETHYDCO has become one of the successful examples of maximizing the added value of petroleum resources.

The Minister explained that ETHYDCO has succeeded in converting locally produced petroleum feedstock into high-quality petrochemical products, particularly polyethylene, which is used in numerous vital industries. This contributes to supporting national industry, meeting local market demand, and reducing reliance on imports. He also directed the preparation of comprehensive studies of

إيثيدكو
ETHYDCO
الشركة المصرية لإنتاج الإيثيلين ومشتقاته
The Egyptian Ethylene & Derivatives Co

global markets to identify the specific requirements of each market, with particular focus on those requiring environmental compliance and carbon footprint measurement to enhance the global competitiveness of the company's products.

Minister Badawi further stressed the importance of strengthening integration with the Ministry of Industry to identify new products required in the Egyptian market and develop production capabilities to meet these needs. He also highlighted the need to prepare a five-year plan to expand production of high value-added products while leveraging the company's skilled human resources and enhancing cooperation across the petroleum and petrochemicals sector.

During the meeting, Chemist Hesham Riyad, Chairman and Managing Director of ETHYDCO, reviewed the company's performance indicators and results achieved in 2025. He affirmed that the company achieved 102% of its production plan producing 302 KT and

305 KT of polyethylene, widely used in manufacturing water, sewage, and gas pipes and other industrial applications. Export sales grew by 5.4%, driven by expansion into Latin American markets particularly Brazil as well as markets in Africa, Europe, and Turkey. The company's products now serve more than 40 industrial complexes across Egypt.

ETHYDCO continues to develop new high value-added products while expanding environmental sustainability initiatives and green production practices. The company became the first in Egypt's petrochemicals sector to include Scope 3 emissions in its carbon footprint assessment while advancing renewable energy projects and circular economy and plastic recycling practices, strengthening global competitiveness and supporting Egypt's sustainable development goals.

These efforts reinforce ETHYDCO's role as a leading national petrochemical company contributing effectively to economic growth and industrial development in Egypt.

THE EGYPTIAN ETHYLENE & DERIVATIVES CO.
الشركة المصرية لانتاج الايثيلين ومشتقاته

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ETHYDCO: A PIONEER IN POLYETHYLENE APPLICATIONS

Related to the important of infrastructure piping solutions for construction sector, water waste management and gas distribution systems. certified pipe grades PE100 black &PE 80 black according to ISO 9080 have superior performance, durability and reliability
ETHYDCO has material EM-3405-UVH specially designed for roto molding application providing confidence in the safety and performance of water tanks.
ETHYDCO also produce polyethylene used in pharmaceutical applications fully aligned with the needs of pharmaceutical industry.
The company redefining the approach of sustainability by fully embracing the principle of circular economy and start producing recyclable polyethylene. Recycling helps create added value for products that are largely considered waste.

Final Products made from ETHYDCO Raw Materials

High density polyethylene (HDPE) - Linear low-density polyethylene (LLDPE)

Plastic Containners

Plastic tanks of all sizes

Plastic barrels

Plastic boxes, covers & pallets

Designed by ETHYDCO

Gas, drinking water & drainage

Threads,ropes & plastic nets

Packaging films (plastic bags)

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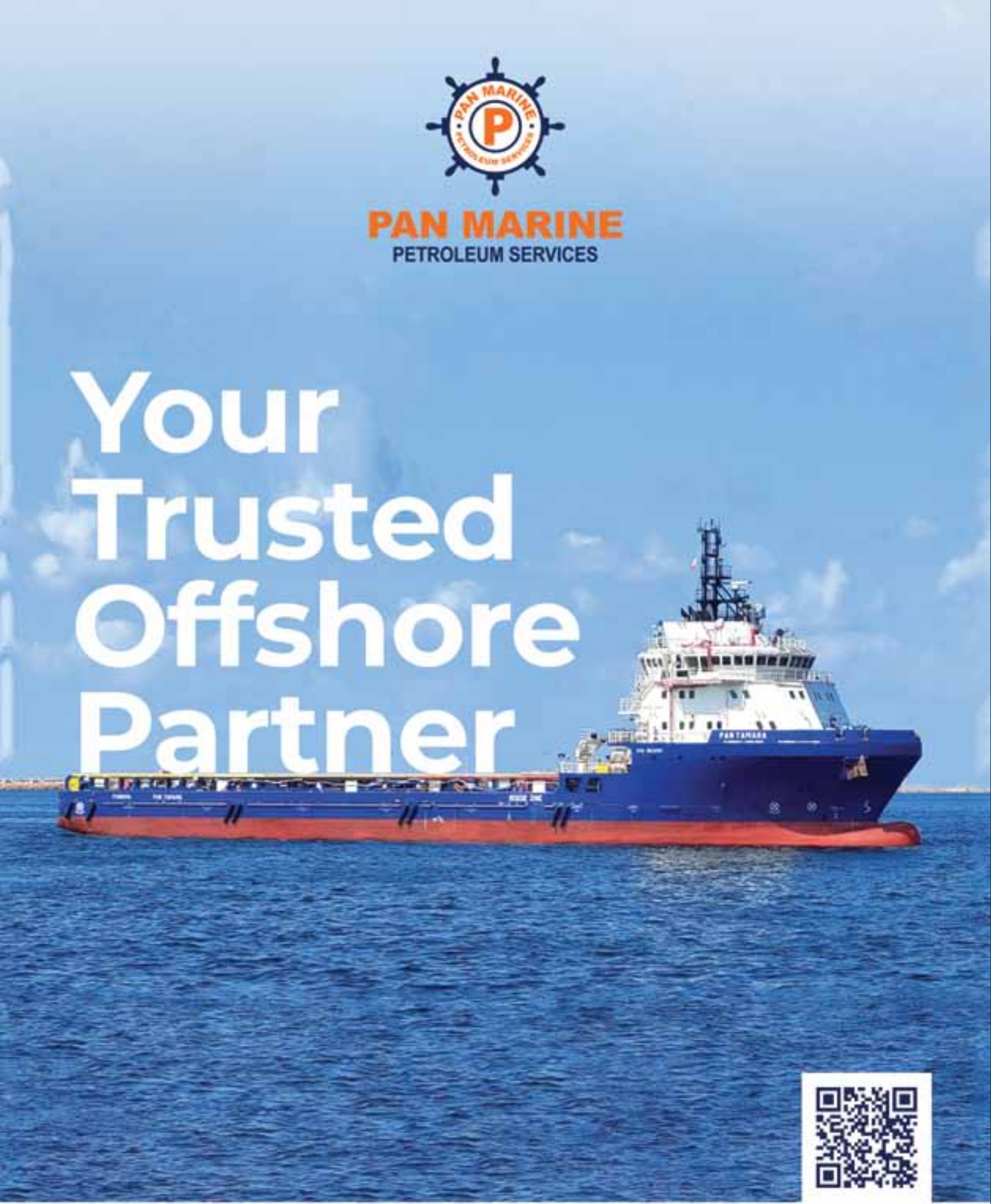

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EthosEnergy expands gas turbine expertise

EthosEnergy has marked a key milestone in its growth strategy with the acquisition of Intellectual Property (IP) that strengthens its capabilities in servicing Frame 9FA.03 gas turbines.

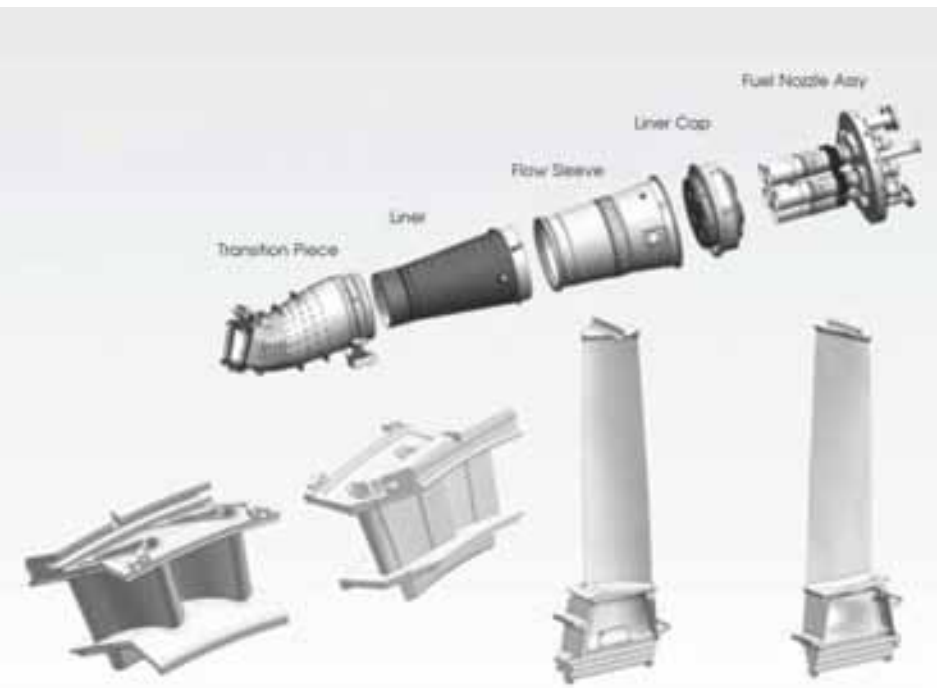
This new expertise complements the company's existing in-house offerings, including rotor lifetime extensions, maintenance, component repairs, field services, optimisation, and upgrades-enabling comprehensive support for hot-gas-path and combustion components.

The development reinforces EthosEnergy's global presence and its reputation as a trusted partner in heavy-duty gas turbine services.

With over 100 years of experience as the OEM for mature Fiat and Westinghouse turbines, the company serves a broad range of units, including Frames 3, 5, 6, 7, and 9, delivering flexible, cost-effective solutions to operators worldwide.

In 2025, EthosEnergy further expanded its capabilities through the acquisition of Turbine Services Limited (TSL), enhancing access to critical parts and technical resources for improved turbine performance, reliability, and value.

By leveraging its extensive maintenance expertise and customer service track record, EthosEnergy provides tailored solutions for power generation, oil and gas, and industrial sectors.



Halliburton and A*STAR Partner To Advance Well Completion Innovation

Halliburton will partner with Singapore's lead public sector research and development (R&D) agency, the Agency for Science, Technology, and Research (A*STAR) to launch the Next-Generation Energy Accelerators Joint Lab (NEX Lab). According to Halliburton, NEX Lab will "accelerate the development and commercialization of advanced well completion technologies for the energy industry."

The $26-million project will serve as a collaborative hub for research, engineering, and testing. NEX Lab will support the transition from early-stage innovation to field deployment by bringing together design, prototyping, and validation, while contributing to the development of technical talent in Singapore through collaboration between Halliburton and the local innovation community.

"As global industries move faster, we cannot afford to let our ideas sit as 'stored potential' for too long. Companies, researchers, and governments must work together to increase our acceleration—acting like a well-oiled machine where every gear turns in sync to solve complex challenges in energy, manufacturing, and sustainability," said Alvin Tan, Singapore's Minister of State for Trade and Industry, who served as officiant for the launch event.

Weir's offline cementing solution reduces NPT

Weir Oil & Gas, a leading upstream provider of systematised pressure pumping and pressure control equipment and services, has said its new offline cementing solution generates substantial reductions of nonproductive time (NPT) and operating costs.

As multi-well pad drilling becomes increasingly common across North American basins, E&P companies seek to improve the overall economics of their drilling operations. NPT is common in multi-pad drilling as crews wait on one another to complete each operation. Weir's Offline Cementing Solution gives operators back valuable drilling time as it removes cementing from the critical path.

Offline cementing offers tool-free 8-minute setup, more drilling time, lower costs

Weir's Offline Cementing Solution incorporates Weir's Quick Connect (WQC) for a tool-free setup in eight minutes. BOP configuration adjustments are unnecessary, and testing isolation in the backside of the well is possible for greater security and well integrity. Field crews can be managed with pinpoint accuracy to reduce costs. Operators using Weir's Offline Cementing Solution in the field have saved as much as 11 hours of NPT and $38,000 per well.

"Multi-pad operations create efficiencies but also complexities in the field," said Andrea "Andi" Simon, President, Weir Pressure Control North America. "By looking beyond step changes to legacy technologies we are evaluating how to make the entire drilling operation more efficient; we engineered our Offline Cementing Solution to dramatically reduce NPT and capital expenditures, allowing operators to substantially increase drilling time while lowering costs."

IWCF launches new framework for well control training

The International Well Control Forum (IWCF) has introduced Quality Assured, a new framework ensuring non-accredited well-control training meets high industry standards.

Designed to provide independent endorsement, it gives training providers and employers confidence in course quality, structure, and relevance.

The framework comprises nine standards covering course design, delivery, assessment, digital learning, and on-the-job training, with defined criteria required to achieve Quality Assured status.

Quality Assured operates across four categories: Well control specialist topics (HPHT, human factors), operationally embedded training for drillers and engineers, specialist equipment training, and continuous learning mechanisms including pre-course modules and digital platforms.

The Well Academy in the Netherlands participated as a trial provider, demonstrating the framework's practical application in supporting global oil and gas safety and professional development.

Zdenek Sehnal, CEO of IWCF, said: «Through Quality Assured, we're committed to ensuring the highest standards in well control training, providing consistency and empowering professionals. This goes beyond compliance; it's about giving the sector confidence in the training they are investing in and supports a culture of continuous development and accountability across the oil and gas industry, where well control incidents can have far reaching impact on life and reputation.»

Jan Willem Flamma, Director of Training at the centre, said: «We were thoroughly impressed with the Quality Assured feedback from IWCF. The report on our Stuck Pipe Prevention and Recovery course went far beyond a simple evaluation, providing a true partnership in quality. The detailed strengths and constructive recommendations will be invaluable in helping us elevate our course materials and delivery, reinforcing our commitment to delivering high quality training and supporting continuous improvement for our learners.»

Rotork unveils RTP-4000 range: next-generation intelligent valve positioner

Rotork is delighted to announce the launch of the RTP-4000 range, a new generation of intelligent valve positioners designed to deliver optimised control solutions for single- and double-acting actuators on rotary and linear valves.

Launching with the dual-certified RTP-4400 model, this initial release combines smooth installation and commissioning, online diagnostics, robust construction, and seamless system integration for fast and energy-efficient operation in demanding oil and gas applications, as well as in other industries requiring high-end valve control solutions.

The range features magnet-based contactless position feedback, eliminating mechanical wear and ensuring long-term reliability for both linear and rotary actuators.

Advanced pressure sensor-based diagnostics provide online real-time device status and predictive maintenance capabilities, while a user-friendly dashboard offers at-a-glance valve status.

The rugged, corrosion-resistant construction, featuring copper-free aluminium and electronic circuits potted in resin, ensures durability even in harsh conditions, and an arctic option extending the temperature range down to -55°C.

The positioner integrates easily with all major control and asset management systems, and the dual certification enables the use in both explosionproof and intrinsically safe areas.

High pneumatic capacity enables rapid valve operation, and optimised supply air consumption helps customers to achieve greater efficiency and lower operational costs.

Additional options include analogue and digital outputs, pressure gauges, and support for Emergency Shutdown (ESD) applications with partial stroke testing capability.

Expro enhances rig floor safety with Catwalk Sensor technology

Expro's Frank's Tubular Running Services (TRS) division has successfully deployed its new Catwalk Sensor technology across its US land operations, delivering a significant leap forward in safety for land-based drilling rigs.

The Catwalk Sensor is designed to address a critical safety gap in manual rig environments. Installed on the rig's catwalk or slingshot system, the sensor emits real-time audible alerts whenever pipe enters the V-door area. This immediate warning system serves as a proactive risk reduction technology so that all personnel on the rig floor are instantly aware of potential hazards enabling swift, proactive responses.

"This is an effective and powerful solution," said Jeremy Angelle, VP of Well Construction of Expro. "Even on the most basic rig floors, the Catwalk Sensor helps create a safer environment by alerting crews to pipe movement before an incident can occur."

Expro's technology is a standalone system that has been designed for easy installation and maintenance, which is intended for all rigs utilising catwalk or slingshot type pipe handling systems.

Jeremy Angelle added: "This initiative reflects Expro's ongoing commitment to operational excellence and stakeholder value, and more importantly, to the safety of its crews and partners around the world."

Hunting launches Opti-TEK™: Smarter, Safer Well Interventions at the upcoming ADIPEC and ICoTA Europe exhibitions

Hunting PLC has announced the launch of Opti-TEK™, a new suite of Optimised Intervention Technologies designed to help operators extend well life, reduce downtime and improve decision-making - while lowering operational costs and environmental impact. These technologies will feature as part of the technology showcase at Hunting's ADIPEC and ICoTA Europe exhibitions.

Built on Hunting's TEK-HUB innovation platform, Opti-TEK™ combines in-house expertise with strategic technology partnerships to accelerate next-generation tools to market. The initial product line includes:

Opti-TEK™ Slickline Tubing Cutter – Disruptive, non-explosive, downhole cutting. A battery-powered, autonomous cutter with CNC-precision for safe, efficient, verified severance in plug and abandonment (P&A) operations, or environmentally sensitive locations.

Opti-TEK™ Data Stem – Downhole intelligence for slickline operations. A plug-and-play slickline tool that captures pressure, temperature, accelerometer and CCL data at a fraction of conventional system costs.

Opti-TEK™ Monitoring System for Greaseless Cable Pack-Off – Real-time data tracking and predictive maintenance capabilities for greaseless cable pack-off heads.

Opti-TEK™ Valves – A step-change in valve design: ultra-lightweight, compact, service-friendly wireline valves delivering high cutting force from low pressure inputs.

Allan Gill, Product Line Director for Well Intervention, commented: "Opti-TEK™ represents Hunting's commitment to delivering smarter, safer and more cost-effective interventions. By aligning cutting-edge innovation with real-world operational demands, we are enabling our customers to optimise every intervention and maximise the value of their asset."

The Non-Metallic Revolution:
Future-Proofing Oil & Gas Infrastructure with GRE and RTP Solutions

Solving Corrosion Challenges in the Oil & Gas Industry

FUTURE PIPE INDUSTRIES
www.futurepipe.com

1. Introduction: The Strategic Shift in Energy Infrastructure

The global energy, oil & gas sector is currently navigating a period of profound structural transformation, driven by the dual pressures of extreme Operational Expenditure (OPEX) volatility and the strategic imperative for decarbonization. For decades, carbon steel served as the industry's default, yet its inherent susceptibility to corrosion—particularly in H2S-rich environments and high-salinity produced water—has become an unmanageable liability for modern, ESG-compliant portfolios. The resulting Capital Expenditure (CAPEX) cycles for replacement and maintenance are no longer sustainable in a market that demands high-efficiency lifecycle management. This reality has catalysed a shift toward advanced non-metallic composites, specifically **WAVISTRONG®** Glass Reinforced Epoxy (GRE), **FLEXSTRONG®** Reinforced Thermoplastic Pipe (RTP), **FLOWSTRONG®** & **GEOSTRONG™**. Future Pipe Industries (FPI) has positioned itself at the vanguard of this transition, operating under a mission to deliver water and energy to the world in the most "efficient and sustainable way." For the readers of Petroleum Today, this represents more than a material swap; it is a fundamental de-risking of infrastructure. This analysis evaluates how FPI's flagship solutions are redefining durability and hydraulic efficiency across the upstream, midstream and downstream value chains.

FUTURE PIPE INDUSTRIES (FPI) – A Global Footprint Powered by Local Expertise

For over four decades, Future Pipe Industries has been at the forefront of composite piping innovation, specializing in glass fiber solutions across Asia, North America, Africa, Europe, and the Middle East. FPI's operational scale is global, with 11 factories and 53 production lines covering over 681,000 m². Its global footprint includes 25+ sales offices serving more than 500 customers in 50+ countries. This localized approach, featuring resident engineers and strategically placed facilities, ensures that FPI remains a trusted partner for major regional players, including Aramco, ADNOC, KOC, GPC, Petrobel, Norpetco, …etc.

We are delighted to mention that FPI Egypt Plant located on the 6th of October area has one of the highest capacities within the Future Pipe Industries Group.

2. Engineering Resilience for High-Temperature Environments - WAVISTRONG® (GRE), FLOWSTRONG® & GEOSTRONG™:

In harsh chemical and offshore thermal environments, selecting the correct resin system is the difference between a 50-year asset and a premature catastrophic failure. Various sectors such as Chemical Industry, Petrochemicals, Energy, Offshore, and Onshore require the superior molecular cross-linking provided by Epoxy.

WAVISTRONG® Medium to high pressure oilfield and industrial services, with diameter range of 25 – 1600 mm, pressure ratings up to 140 bar, and design temperature from - 60 °C to 121 °C.

FLOWSTRONG® High pressure oilfield and industrial services, with diameter range of 50 – 400 mm, pressure ratings up to 200 bar, and design temperature from -60°C to 121 °C.

GEOSTRONG™ Tubing & Casing for downhole applications, with diameter range of 50 – 600 mm, pressure ratings up to 200 bar, and design temperature from -60°C to 121 °C.

3. The Versatility of Reinforced Thermoplastic Pipe (RTP) - FLEXSTRONG®:

To accelerate "First Oil" and minimize the logistical complexity of remote field developments, the industry is increasingly adopting spoolable Reinforced Thermoplastic Pipe (RTP). **FLEXSTRONG®** represents FPI's strategic response to the need for rapid-response infrastructure, particularly in tiebacks and midstream gathering lines where traditional welding schedules and heavy lifting equipment would delay project timelines. Reinforced Thermoplastic Pipe comprise of three basic layers including a thermoplastic (HDPE) liner, helically wrapped HDPE continuous fiber high-strength reinforced thermoplastic composite (GF-RTP) tape reinforcement, and an external thermoplastic jacket. With sizes 3, 4 & 6 inch diameter, pressure ratings up to 129 bar and temperature up to 85 °C.

4. The Composite Advantage: Beyond the Material Specs

Material selection has evolved from a field-level engineering choice into a Board-level financial and ESG decision. The "Composite Advantage" offered by FPI addresses the total lifecycle carbon debt and financial performance of the asset.

1. Anti-Corrosive Performance
2. Decarbonization & Energy Savings
3. Durable and Lightweight
4. Longer lifecycle
5. Cost effective & Efficient

At FPI, we don't just follow industry standards, we help shape them. Beyond holding top certifications, we actively collaborate with leading International Standards Organizations to develop and refine best practices, ensuring superior performance of our composite pipes worldwide... Through leadership in **ISO/TC67/SC6 (ISO14692)** and **API15S**, as well as participation in DNV Joint Industry Projects (JIP) for hydrogen transmission and downhole RTP applications, FPI ensures that composite technology remains "future-proof" against evolving global energy mixes.

5. Conclusion: A strong Portfolio that you can rely on

We offer an unmatched range across diverse sectors, using advanced glass fiber technology for superior durability, corrosion resistance, and a reduced carbon footprint. At FPI, we've produced enough pipes to circle the globe four times (equivalent to 160,300+ Kilometres). A bold testament to our unmatched expertise and proven track record. This scale confirms that GRE and RTP solutions are no longer "emerging" technologies but are field-proven staples of the modern energy landscape.

Leveraging our extensive energy sector experience, we are committed to expanding our role in the energy transition journey. As the industry pivots toward Carbon Capture, Utilization, and Storage (CCUS), hydrogen and ammonia technologies, and the rapid growth of geothermal and renewable energy solutions, the inherent durability and chemical resistance of FPI's composite systems become critical enablers of long term performance. Our mission includes decarbonizing industries through the development and deployment of resilient CCUS infrastructure, unlocking the full potential of hydrogen and ammonia transport, and providing lower carbon, cost effective alternatives for geothermal and clean energy applications. By decoupling infrastructure longevity from the corrosive nature of the evolving energy mix, FPI is effectively de risking the energy transition and ensuring that the infrastructure of tomorrow is as sustainable and future ready as the energy it carries.

Delivering water and energy to the world, in the most efficient and sustainable way.

We design and manufacture composite piping solutions for use across the Water, Industrial, Oil & Gas and Marine Industries.

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IRAN WAR AND THE GLOBAL ENERGY EQUATION

STRATEGIC IMPLICATIONS FOR THE MIDDLE EAST AND EGYPT

By Petroleum Today Research Desk

Rising Geopolitical Tensions Reshape Global Energy Markets

The outbreak of direct military confrontation between the United States and Iran has reintroduced a familiar yet dangerous variable into global energy markets: geopolitical disruption in the world's most important hydrocarbon region. The Middle East remains the heart of global oil supply and a key pillar of international energy trade, meaning that any escalation between Washington and Tehran carries immediate implications for oil prices, shipping routes, and global energy security.

The most immediate shock has been felt in international oil markets. As tensions escalated and military operations intensified in early 2026, crude oil prices surged sharply. Brent crude rose above $80 per barrel, with analysts warning that prices could climb above $100 per barrel if the conflict significantly disrupts supply routes in the Gulf.

Markets reacted quickly because the Persian Gulf hosts some of the world's largest oil producers—including Saudi Arabia, Iraq, the United Arab Emirates, and Kuwait—and serves as the transit corridor for a significant portion of global energy exports. Even the possibility of disruptions has been enough to inject a strong geopolitical risk premium into oil prices.

Energy traders and policymakers are therefore closely watching developments around the Strait of Hormuz, a narrow maritime passage that represents one of the most strategic chokepoints in the global energy system.

The Strait of Hormuz: The World's Most Critical Energy Chokepoint

At the center of the global energy crisis triggered by the U.S.–Iran conflict lies the Strait of Hormuz. This narrow waterway, located between Iran and Oman, serves as the main gateway for oil exports from the Persian Gulf to international markets.

Approximately 20 million barrels of oil per day, or roughly 20% of global petroleum consumption, passes through the strait.

In addition to crude oil, large volumes of liquefied natural gas (LNG) also transit the corridor, particularly shipments from Qatar, one of the world's largest LNG exporters. As a result, any disruption to shipping in the strait immediately reverberates across global energy markets.

Recent hostilities have significantly reduced maritime traffic in the region, leaving oil tankers stranded and raising fears of prolonged supply disruptions. Reports indicate that hundreds of tankers have been forced to anchor in Gulf waters as the conflict escalates and insurers withdraw war-risk coverage for vessels operating in the region.

The temporary closure or military control of the strait has already contributed to rising shipping costs and declining energy exports from several Gulf producers.

Energy analysts warn that a prolonged blockade could remove millions of barrels per day from the market, creating a shock comparable to the oil crises of the 1970s.

Global Oil Markets under Pressure

Energy markets are extremely sensitive to geopolitical risk, particularly when conflicts threaten key producing regions. Even before actual supply disruptions occur, traders often price in what is known as a "risk premium."

This phenomenon has been clearly visible during the recent escalation in the Gulf. Oil prices have risen significantly due to fears that the conflict could affect production facilities or maritime export routes.

Iran itself produces nearly 4 million barrels per day of crude oil, exporting a substantial share primarily to Asian markets. However, the larger concern is the potential impact on neighboring producers. Saudi Arabia, Iraq, Kuwait, and the United Arab Emirates collectively export more than 15 million barrels per day, much of which travels through the Strait of Hormuz.

If shipping disruptions spread across the region, global energy markets could face one of the largest supply shocks in decades.

Beyond crude oil, the crisis has also affected natural gas markets, particularly LNG supplies from the Gulf.

The war has highlighted how deeply interconnected the global energy system has become. A conflict in the Persian Gulf can immediately impact fuel prices in Europe, industrial output in Asia, and inflation rates worldwide.

Middle East Energy Infrastructure at Risk

The Middle East remains the backbone of the global oil system, accounting for nearly one-third of global crude oil production. However, the region's energy infrastructure is also highly vulnerable to geopolitical conflict.

Oil fields, pipelines, refineries, and export terminals are all considered strategic assets during wartime. Historically, energy facilities in the region have been targeted during conflicts, including attacks on pipelines, offshore platforms, and major processing plants.

Military escalation between the United States and Iran raises concerns about potential attacks on regional energy infrastructure, particularly in Gulf states that host U.S. military bases or maintain close security ties with Washington.

Such attacks could include:

- Missile strikes on oil export terminals
- Drone attacks on refineries and storage facilities
- Disruption of pipeline networks
- Cyberattacks targeting energy infrastructure

Even limited disruptions could have substantial consequences for global energy supply.

The Gulf's concentration of energy assets means that a single incident could affect millions of barrels per day of production capacity.

Egypt's Strategic Energy Position

While the conflict primarily affects the Persian Gulf, its consequences extend far beyond the immediate battlefield. Egypt, located at the crossroads of global energy trade, plays a strategic role in global oil and gas logistics.

Two critical energy corridors run through Egypt:

1. The Suez Canal
2. The SUMED Pipeline

Both routes allow crude oil and petroleum products to travel between the Persian Gulf and European markets.

The Suez Canal serves as a major transit route for oil and LNG shipments moving from the Middle East toward Europe and North America.

Meanwhile, the SUMED pipeline, which connects the Red Sea to the Mediterranean, provides an alternative route for transporting crude oil across Egypt.

The pipeline has a capacity of approximately 2.8 million barrels per day, enabling oil shipments to bypass congested or risky maritime routes.

In the event of prolonged instability in the Gulf, Egypt's transit infrastructure could become even more important to international energy markets.

Indeed, Egyptian officials have already highlighted the possibility of transporting Gulf crude through the SUMED pipeline as an alternative logistics route for global energy trade.

Natural Gas and LNG: A New Dimension of Energy Security

The U.S.–Iran conflict also carries implications for global natural gas markets.

Over the past decade, LNG has become one of the fastest-growing segments of the energy industry. Many countries increasingly rely on LNG imports to secure their energy supply.

However, a significant portion of global LNG exports originates in the Persian Gulf.

If LNG shipments from Qatar or other regional producers were disrupted, importing countries in Europe and Asia could face serious supply shortages.

Egypt occupies a unique position within this system.

The country hosts two major LNG liquefaction plants:

- Idku LNG Plant
- Damietta LNG Plant

These facilities enable Egypt to process natural gas from

the Eastern Mediterranean and export LNG to international markets.

As energy trade patterns shift due to geopolitical tensions, Egypt could strengthen its role as a regional gas hub connecting the Mediterranean, Africa, and Europe.

Economic Implications for Egypt

The economic effects of the U.S.–Iran war on Egypt are complex and multifaceted.

On one hand, rising oil prices could increase revenues for oil-producing countries and stimulate upstream investments across the region.

On the other hand, higher global energy prices could increase Egypt's energy import costs and place additional pressure on the national budget.

Another key risk is the potential disruption of regional gas supplies in the Eastern Mediterranean.

Egypt's growing role as a gas hub relies heavily on regional cooperation and cross-border energy flows. Any geopolitical instability that disrupts these flows could affect domestic power generation and industrial production.

Nevertheless, Egypt's strategic location and energy infrastructure also provide opportunities.

If global shipping routes shift due to instability in the Gulf, transit through the Suez Canal and SUMED pipeline could increase, generating additional revenue and strengthening Egypt's role in global energy logistics.

Global Energy Security in a New Era of Geopolitical Risk

The U.S.–Iran conflict illustrates how geopolitical tensions remain a central factor shaping the future of global energy markets.

Despite rapid growth in renewable energy, oil and natural gas continue to dominate the global energy mix. As long as this remains the case, regions rich in hydrocarbon resources will continue to play a decisive role in international geopolitics.

Energy security is therefore no longer defined solely by supply and demand.

Instead, it increasingly depends on:

- geopolitical stability
- maritime security
- resilient supply chains
- diversified energy sources

The Middle East will remain a focal point of this equation for the foreseeable future.

Outlook: What Comes Next for Global Energy?

The long-term consequences of the U.S.–Iran conflict will depend largely on how the crisis evolves.

Three scenarios are currently being considered by energy analysts:

1. Limited Conflict Scenario

Hostilities remain contained, allowing oil exports and maritime traffic to resume within weeks. In this case, oil prices may stabilize between $80 and $90 per barrel.

2. Regional Escalation Scenario

The conflict spreads across the Gulf, threatening energy infrastructure and shipping lanes. Oil prices could exceed $120 per barrel under such conditions.

3. Strategic Energy Realignment

Countries accelerate efforts to diversify energy sources, invest in renewables, and develop alternative supply routes.

Regardless of the outcome, the current crisis has already demonstrated the continuing influence of geopolitics on global energy systems.

Conclusion

The U.S.–Iran war represents a major geopolitical shock to global energy markets, highlighting the vulnerability of the world's most critical oil transit routes and energy infrastructure.

For the Middle East, the conflict underscores the strategic importance of energy security and regional stability.

For Egypt, the crisis presents both risks and opportunities. While higher energy prices and regional instability pose challenges, Egypt's strategic infrastructure—including the Suez Canal, the SUMED pipeline, and LNG export facilities—positions the country as a key player in global energy logistics.

As the global energy system continues to evolve, the intersection of geopolitics and energy will remain one of the defining forces shaping the industry's future.

Sources: International Energy Agency (IEA); U.S. Energy Information Administration (EIA); OPEC Statistical Bulletin; BloombergNEF; S&P Global Commodity Insights; Reuters; Egyptian Ministry of Petroleum and Mineral Resources; EGAS; CSIS; Oxford Institute for Energy Studies.

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- N-Butyl Acetate
- Sec-Butyl Acetate
- Iso-Butyl Acetate
- Methyl Acetate
- Polyvinyl Acetate
- Acetic acid

GLYCOL ETHERS

- Butyl Glycol Ether
- Ethyl Glycol Ether
- Butyl Di Glycol
- Butyl Glycol Acetate
- Butyl Di Glycol Acetate
- Methoxy Propanol
- Methoxy Propyl Acetate
- Ethoxy Propanol

KETON

- Methyl Ethyl Ketone
- Cyclohexanone
- Methyl Iso Butyl Ketone

MONOMERS

- Styrene Monomer
- Vinyl Acetate Monomer
- Styrene Acrylic
- Styrene Acrylic Copolymer

MONO ETHYLENE GLYCOL

- Di Ethylene Glycol
- Tri Ethylene Glycol
- Mono Propylene Glycol
- Di Propylene Glycol
- Poly Ethylene Glycol

ACRYLATES

- Ethyl Acrylate
- Butyl Acrylate
- Methyl Methacrylate
- Mixed Xylene
- Solvent Naphtha 100
- Solvent Naphtha 150
- Benzol

ALCOHOLS

- Methanol
- Blended Ethanol
- Isopropyl Alcohol
- N-Butanol
- Iso-Butanol
- PropBH
- Benzyl Alcohol
- Di Acetone Alcohol "DAA"
- 2-Ethoxyethanol"2EH

MIXED HYDROCARBONS

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- solvent Naphtha 100
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حلول متكاملة تضع المهندس في مقدمة سباق الطاقة كواحد من أهم الموردين الرئيسيين في حقول النفط والبترول.

في خضم التحولات الجيوسياسية واضطراب سلاسل الإمداد العالمية، تبرز أهمية اللاعبين المحليين القادرين على تحقيق التوازن بين الأمان التمويني والاستراتيجية. وفي قلب هذه المعادلة، تقف اليوم القاهرة هذه الورشة، وفي قلب هذه الورشة الكبرى، شركة المهندس للتجارة والصناعات الكيماوية، التي لم تعد مجرد موزع، بل تحولت إلى ركيزة أساسية في هرم الصناعة المصرية.

مع 1500 موظف وطاقة إنتاجية تصل إلى 400 ألف طن، وبنية تحتية لوجستية هائلة تضم 86 خزانًا بسعة تخزينية كلية تبلغ 85 مليون لتر، تضع الشركة نفسها في موقع الريادة الذي تعلنه بكل ثقة: "الأولى في توزيع واستيراد الكيماويات في السوق المصري".

في هذا الحوار الحصري لـ "PETROLEUM TODAY"، نفتح ملفات استراتيجية مع المهندس محمد أبو الخير، رئيس مجلس الإدارة، لنناقش كيف تدير شركة المهندس ملف الأمن التمويني للمواد الخام والمذيبات البترولية، في وقت تتسابق فيه الدول على تأمين احتياجاتها.

وتتعمق في دورها الحيوي في تغذية قطاعات حيوية من الطاقة والبترول إلى الدهانات مرورًا بالصناعات التحويلية، والمستحضرات الدوائية والزراعية.

كما نسلط الضوء على خطط التوسع الطموحة للشركة في أسواق مصر وإفريقيا والشرق الأوسط، وكيف توازن بين متطلبات النمو ومعايير الاستدامة والسلامة الكيماوية. فمن خلال خبرتها الممتدة، وقدراتها على المزج والتخزين، تقدم "المهندس" نموذجًا لشركة وطنية قادرة على دعم طموحات مصر لأن تصبح مركزًا إقليميًا للطاقة والصناعة.

نبذة عن شركة المهندس في معالجة النفط والغاز:

تعد شركة المهندس من أكبر الشركات المتخصصة في تقديم الحلول الكيميائية لعمليات معالجة الزيت الخام والغاز الطبيعي، حيث تساهم بشكل مباشر في تحسين كفاءة الإنتاج وضمان استقرار العمليات داخل منشآت البترول.

تركّز الشركة على تطوير وتوريد كيماويات الإنتاج التي تُستخدم في مراحل الفصل والمعالجة، بدءًا من رأس البئر وحتى محطات المعالجة المركزية.

بالإضافة إلى أن شركة المهندس الشريك الرئيسي لإمداد MONETHYLENE GLYCOL لأكبر حقل إنتاج غاز في مصر، وهو حقل ظهر.

ما هي الخدمات الأساسية التي تقدمها شركة المهندس في قطاع النفط والغاز؟

تقدم شركة المهندس حزمة متكاملة من الخدمات في مجال معالجة النفط والغاز، حيث تقوم بتوريد الكيماويات المتخصصة لمعالجة الزيت الخام والغاز، وحقن المياه، ومعالجة مياه الصرف الصناعي المصاحبة لعملية الإنتاج.

وتتم عملية اختيار كل منتج بعناية من خلال تصميم برامج المعالجة الكيميائية حسب ظروف كل حقل، وذلك من خلال إجراء الاختبارات المعملية لاختيار المنتج الأكثر كفاءة بأقل استهلاك يومي، بالتعاون مع العميل، ثم يتم إجراء اختبارات حقلية للتأكد من أداء المنتج وتسجيل النتائج واعتماده.

ما هي القيمة المضافة التي تقدمها الشركة لعملائها في هذا القطاع؟

القيمة الأساسية التي نقدمها تتمثل في قدرتنا على توفير حلول مخصصة لكل حقل وفقًا لظروف التشغيل المختلفة.

نحن لا نقدم منتجًا فقط، بل نقدم حلًا متكاملًا يشمل التحليل، والتطبيق، والمتابعة الفنية المستمرة لضمان أفضل أداء ممكن وتقليل المخاطر التشغيلية، من خلال فريق عمل يعمل في حقول البترول على مدار 24 ساعة.

هل تساهم هذه الحلول في تقليل التكاليف التشغيلية؟

بالتأكيد، من خلال تحسين كفاءة الكيماويات المستخدمة في كل عملية إنتاجية، وتقليل الأعطال، نتمكن من خفض تكاليف التشغيل والصيانة.

كما أن تقليل التوقفات المفاجئة وزيادة عمر المعدات يساهم بشكل كبير في تحقيق وفر اقتصادي ملحوظ للعملاء.

ماذا عن الحلول الفعالة التي تقدمها شركة المهندس في مواجهة المشاكل التشغيلية؟

نركز بشكل كبير على هذه التحديات، حيث نوفر مجموعة متكاملة من الكيماويات مثل:

DEMULSIFIER – POUR POINT DEPRESSANT – CORROSION INHIBITOR – SCALE INHIBITOR – BIOCIDE

هذه الحلول تساعد على تقليل الأعطال، ومنع تكون الرواسب، وحماية المعدات من التآكل، كما تعمل على زيادة الإنتاج وضمان استمرارية التشغيل بكفاءة عالية.

كيف تساعدون في إطالة عمر المعدات والمنشآت؟

نعتمد على برامج معالجة كيميائية دقيقة ومستمرة، تساهم في حماية الأصول من التآكل والترسيب والتلف المبكر.

هذا يؤدي إلى إطالة العمر التشغيلي للمعدات، وتقليل الحاجة إلى الاستبدال أو الصيانة الثقيلة، وهو ما يمثل قيمة استراتيجية لعملائنا.

كما أن شركة المهندس لا تعمل كمورد كيماويات فقط، بل كشريك تقني يهدف إلى تحسين كفاءة الإنتاج وتقليل التكاليف التشغيلية في حقول النفط والغاز.

ما هي خطة تطوير شركة المهندس في المرحلة القادمة؟

تعتمد خطة التطوير على اتجاهات السوق، ووضع خطة واقعية واحترافية للمرحلة القادمة بناءً على البيانات المتاحة.

وذلك من خلال زيادة الطاقة الإنتاجية للكيماويات الخاصة بقطاع النفط والغاز، وإنشاء خطوط إنتاج مخصصة، خاصة في المنطقة الحرة بالعامرية، بهدف تقليل الاعتماد على الاستيراد، وتقليل مدة التوريد، وتحسين تكلفة المنتج النهائي.

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EGYPT'S PETROLEUM SECTOR 2025 ACHIEVEMENTS

Production Recovery, Strategic Investments, and the Path toward Energy Transition

Egypt's petroleum sector continued to play a central role in supporting the country's economic stability and energy security in 2025. Despite global energy market volatility, rising domestic consumption, and regional geopolitical pressures, the sector demonstrated resilience through renewed exploration activity, increased production from mature fields, modernization of refining infrastructure, and the expansion of petrochemical and energy transition initiatives.

Under the leadership of Karim Badawi, the Ministry of Petroleum and Mineral Resources pursued an integrated strategy aimed at strengthening domestic energy supply, attracting international investments, improving operational efficiency, and advancing sustainability initiatives.

The sector's performance during 2025 reflects progress across four major pillars:

1. Production recovery and exploration successes
2. Strengthening refining and petrochemical supply chains
3. Expanding strategic investments and international partnerships
4. Accelerating decarbonization and energy transition initiatives

Together, these developments highlight Egypt's ambition to reinforce its position as a regional energy hub linking Africa, Europe, and the Middle East.

Production Recovery and Exploration Success

Exploration and production activities regained momentum in 2025 as Egypt intensified drilling programs and development projects across its major hydrocarbon basins.

The country's primary producing regions remain the Western Desert, the Mediterranean offshore basin, and the Gulf of Suez. These areas collectively account for the majority of Egypt's oil and gas production.

During fiscal year 2024/2025, Egypt recorded 49 new oil and gas discoveries, reflecting continued exploration success despite fluctuating drilling activity in recent years.

At the same time, the sector drilled 71 exploratory wells as part of an expanded upstream investment program aimed at sustaining production growth and increasing reserves.

Table 1 – Exploration Activity in Egypt (FY 2024/2025)

Indicator	Value
Oil and gas discoveries	49
Exploratory wells drilled	71
Exploration agreements signed	11
Development contracts	12

Domestic production of petroleum products and natural gas exceeded 60 million tons, helping to meet the country's total energy consumption of 83.6 million tons annually.

Table 2 – Egypt Energy Supply and Demand

Indicator	Value
Domestic petroleum and gas production	60+ million tons
Total domestic consumption	83.6 million tons
Share covered by domestic production	~72%
Remaining demand covered by imports	~28%

Several petroleum companies operating in Egypt achieved significant production milestones during the year.

Joint ventures between the Egyptian General Petroleum Corporation and international partners recorded daily production exceeding 110,000 barrels of petroleum liquids, driven by successful development programs and the startup of new wells.

Meanwhile, development programs in the Western Desert and Gulf of Suez are expected to increase crude oil production toward 565,000 barrels per day, compared with about 475,000 barrels per day previously, as new wells are brought online.

Table 3 – Crude Oil Production Outlook

Indicator	Production Level
Previous production level	~475,000 barrels/day
Target production level	~565,000 barrels/day
Planned production increase	+90,000 barrels/day

New wells drilled across Egypt's producing basins have also contributed significantly to increased production capacity. During 2025, approximately 430 wells were brought into production, adding more than 200,000 barrels of crude oil and condensates per day along with 1.2 billion cubic feet of natural gas to Egypt's energy supply.

Table 4 – Production Additions from New Wells

Indicator	Value
New wells brought online	430
Additional oil and condensate production	200,000 barrels/day
Additional gas production	1.2 billion cubic feet/day

The use of advanced technologies is also playing an increasingly important role in revitalizing mature oil fields. Artificial intelligence and digital reservoir modeling were used to re-evaluate older fields in the Western Desert, leading to discoveries that added approximately 62 million barrels of oil equivalent to national reserves.

These technologies also improved drilling efficiency and increased well productivity, demonstrating the growing role of digital innovation in Egypt's upstream sector.

Refining Capacity and Petrochemical Expansion

Ensuring reliable supply of petroleum products to the domestic market remains one of the sector's primary objectives. Egypt operates a network of refineries capable of processing more than 25.3 million tons of crude oil annually, producing fuels such as gasoline, diesel, jet fuel, and liquefied petroleum gas.

Table 5 – Egypt Refining Sector Overview

Indicator	Value
Crude oil refined annually	25.3 million tons
Number of refineries	10 major facilities
Petroleum products supplied	30+ million tons annually

To improve fuel quality and reduce reliance on imports, the government continues implementing refinery modernization projects focused on upgrading processing technologies and increasing conversion capacity.

The petrochemical sector has also become a key pillar of

Egypt's downstream energy strategy.
Major projects are being developed to transform hydrocarbons into high-value industrial products such as plastics, fertilizers, and specialty chemicals.
One of the most significant projects under development is the petrochemical complex in Ain Sokhna, located within the Suez Canal Economic Zone.
The project is estimated to cost around $2 billion and will focus on producing polypropylene and hydrogen-based petrochemical feedstocks for domestic and export markets.

Table 6 – Petrochemical Industry Investments

Project	Location	Investment
Ain Sokhna Petrochemical Complex	Suez Canal Economic Zone	$2 Billion
Downstream petrochemical expansion	Various industrial zones	Multi-billion

These projects are expected to significantly strengthen Egypt's petrochemical industry while increasing export revenues and supporting downstream manufacturing sectors.

Strategic Investments and International Partnerships

Foreign investment continues to play a critical role in the development of Egypt's petroleum resources.
The sector maintains strong partnerships with major international energy companies, These companies remain active in exploration, field development, and offshore gas production projects across Egypt.
During 2025, Egypt signed 33 new exploration and production agreements with international partners, representing minimum investments exceeding $1.6 billion and commitments to drill more than 170 exploration wells.

Table 7 – Upstream Investment Agreements

Indicator	Value
Exploration agreements signed	33
Minimum investments	$1.6 Billion
Exploration wells committed	170

Egypt continues to promote exploration opportunities through the Egypt Upstream Gateway, a digital platform that provides geological data and allows companies to bid for exploration blocks online.
In recent licensing rounds, Egypt offered 61 investment opportunities, including exploration blocks and mature producing fields, to attract additional international investors.

Table 8 – Exploration Opportunities Offered

Category	Number
Exploration areas (EGPC)	34
Mature fields	15
Mediterranean exploration areas (EGAS)	12
Total opportunities	61

These initiatives are designed to enhance transparency, accelerate investment decisions, and maintain Egypt's competitiveness in the global energy market.

Decarbonization and Energy Transition

While hydrocarbons remain the backbone of Egypt's energy system, the petroleum sector has increasingly prioritized sustainability initiatives and emissions reduction programs.
During 2025, the sector implemented 18 projects aimed at improving energy efficiency and reducing carbon emissions, including solar energy installations at oil fields, flare gas recovery systems, and diesel consumption reduction programs.

Table 9 – Energy Transition Projects

Initiative	Number of Projects
Flare gas recovery	7
Energy efficiency improvements	5
Solar power integration	4
Emission monitoring systems	2
Total projects	18

These projects have generated annual economic returns of approximately $58 million while reducing carbon dioxide emissions by around 270,000 tons annually.

Table 10 – Environmental Impact

Indicator	Value
CO_2 emissions reduction	270,000 tons annually
Annual financial savings	$58 million
Energy transition projects implemented	18

Renewable energy integration is becoming increasingly common in petroleum operations, particularly in remote production areas where solar and wind power can reduce reliance on diesel generators.

In addition to operational decarbonization, Egypt is exploring opportunities in emerging sectors such as green hydrogen production, sustainable fuels, and low-carbon petrochemicals.

These initiatives align with Egypt's long-term strategy to balance hydrocarbon development with environmental sustainability and global climate commitments.

Outlook: Egypt's Role as a Regional Energy Hub

Looking ahead, Egypt's petroleum sector is entering a new phase characterized by expanding investments, technological innovation, and increasing integration of renewable energy.

The government has launched a five-year exploration program targeting the drilling of approximately 480 wells with investments approaching $6 billion to sustain production growth and strengthen reserves.

At the same time, refinery modernization projects, petrochemical expansion, and increased international partnerships are expected to strengthen Egypt's role as a major energy hub in the Eastern Mediterranean.

With continued exploration success, growing investment, and expanding energy infrastructure, Egypt's petroleum sector remains one of the most dynamic energy industries in the region and a critical driver of national economic development.

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EGYPT'S PETROLEUM SECTOR AN INTEGRATED FIVE-YEAR PLAN (2026 - 2030)

Egypt's petroleum sector is embarking on one of its most ambitious transformation journeys in decades. With a newly unveiled integrated five-year plan (2026-2030), the Ministry of Petroleum and Mineral Resources has charted a comprehensive roadmap to reverse production decline, attract massive foreign investment, and reposition the country as a premier regional energy hub. This strategic blueprint comes at a critical juncture as Egypt navigates the dual challenge of meeting soaring domestic demand—evidenced by a 53% surge in the petroleum import bill to $9.7 billion in early FY2024/25—while capitalizing on its substantial natural resource endowments and strategic geographic position .

The plan, spearheaded by Minister Karim Badawi, is built on five interconnected pillars: an intensive drilling campaign, aggressive attraction of foreign direct investment (FDI), a commitment to energy efficiency and decarbonization, expansion of downstream and petrochemical value chains, and the integration of digital transformation and artificial intelligence. This article analyzes each component in depth, drawing on the latest official data, investment figures, and strategic initiatives that define this pivotal period for Egypt's energy sector.

Intensive Exploration and Drilling: A $5.7 Billion Campaign

At the heart of the five-year strategy lies an unprecedented exploration and drilling program designed to bolster reserves and boost production.

The ministry has committed to drilling approximately **480 exploratory wells** by 2030, backed by total investments exceeding **$5.7 billion** . This represents one of the most significant exploration campaigns in Egypt's recent history, targeting both proven basins and underexplored frontier areas.

2026 Drilling Program: A Detailed Breakdown

The plan kicks off with an aggressive 2026 program targeting the drilling of 101 exploratory wells, demonstrating the urgency with which the ministry is approaching production enhancement . The geographic distribution of these wells reflects a deliberate strategy to diversify risk and optimize **resource capture:**

Western Desert: 67 wells, making it the primary focus area given its established infrastructure and relatively lower drilling costs.

Mediterranean Sea: 14 wells, targeting deep-water gas prospects that could yield significant discoveries.

Gulf of Suez : 9 wells, focusing on brownfield developments and near-field exploration in this mature but productive basin.

Nile Delta: 6 wells, aimed at unlocking additional reserves close to major consumption centers .

Early Success Indicators

The strategy is already showing tangible results. After years of declining output, Egypt recorded its **first increase in natural gas production in August 2025**, a turning point attributed to the incentive measures implemented over the preceding year . This reversal was supported by the addition of **300 wells to the production map**, which helped stabilize output and restore confidence in the sector's growth trajectory.

Poduction Targets and Import Substitution

The ultimate objective of this drilling campaign is to achieve production self-sufficiency and reduce the national import bill, which reached $9.7 billion in the first half of FY2024/25—a 53% increase year-on-year . By accelerating the integration of new wells from both existing and newly discovered fields, the ministry aims to secure supply for the critical summer 2026 season, when electricity demand peaks . The coordinated planning with the Ministry of Electricity and Renewable Energy ensures that gas supply scenarios are flexible enough to accommodate sudden consumption spikes, providing a crucial buffer for grid stability .

Attracting Foreign Direct Investment (FDI): Restoring Confidence and Unlocking Potential

The second pillar of Egypt's strategy recognizes that public investment alone cannot achieve the sector's ambitious goals. The Ministry has therefore implemented a multi-pronged approach to attract international oil companies (IOCs), combining financial incentives, arrears repayment, and streamlined regulatory processes.

Repayment of Arrears: The Confidence Builder

A critical factor in restoring investor confidence has been the government's commitment to regularly settle outstanding dues to foreign partners. By demonstrating fiscal responsibility and honoring payment obligations, the ministry has signaled that Egypt is once again a reliable investment destination . Reports indicate that Egypt plans to repay between $250 million and $350 million in arrears to foreign oil companies in the first quarter of 2026 alone, providing immediate liquidity to partners and encouraging renewed investment in exploration and production activities .

Major Commitments from International Players

The strategy has already attracted significant commitments from industry giants:

- Eni: has announced plans to invest **$8 billion** in new exploration projects, signaling strong confidence in Egypt's deep-water potential and existing asset base.
- BP: is committing **$5 billion** toward exploration and development activities, focusing on both gas and oil opportunities.

In addition to these mega-commitments, the ministry has recently signed **four new exploration agreements** worth over **$340 million** with companies including Eni, Shell, and Arkeus Energy . These agreements, alongside **21 new partnerships** attracting **$1.1 billion** in investments over the past year, demonstrate the broadening base of international interest in Egypt's energy sector .

New Incentive Packages

Minister Badawi has announced that the ministry will soon unveil new investment incentive packages designed to encourage both international and domestic Egyptian companies to ramp up production activities . These incentives are expected to include improved contractual terms, flexible cost-recovery mechanisms, and enhanced fiscal provisions that make exploration in Egypt more competitive relative to other global basins .

Energy Efficiency and Decarbonization: Balancing Growth with Sustainability

As Egypt pursues aggressive hydrocarbon development, the

five-year plan simultaneously addresses the global energy transition through concrete efficiency and decarbonization initiatives. This dual-track approach recognizes that fossil fuels will remain central to Egypt's energy mix for the foreseeable future, but must be developed with an eye toward environmental responsibility and long-term sustainability.

Methanol and Green Fuels: The C2X Partnership

A landmark development in this area is the framework agreement signed with **C2X**, a company backed by A.P. Moller Holding and A.P. Moller – Maersk, to enable large-scale **green methanol production** in Egypt . The project, strategically located near the Suez Canal, aims to achieve production capacity exceeding **three million tonnes per year by 2030**, utilizing renewable energy from wind and solar sources.

This represents the **10th framework agreement** signed by the Suez Canal Economic Zone (SCZone) as part of its green economy transformation strategy . The initiative positions Egypt at the forefront of alternative marine fuel production, capitalizing on its proximity to major shipping lanes and its abundant renewable energy potential.

Infrastructure Efficiency and Flare Reduction

The ministry is also focusing on operational efficiency improvements across existing infrastructure. The deployment of **Floating Storage and Regasification Units (FSRUs)** with a total capacity of **2.75 billion cubic feet per day** provides system flexibility and ensures supply security while domestic production ramps up . These units serve as both a backup for peak demand periods and a mechanism for optimizing gas utilization across the power and industrial sectors.

Regional Integration and Gas Hub Aspirations

Egypt's positioning as a regional gas hub inherently supports efficiency goals by maximizing utilization of existing infrastructure. The country's **LNG complexes at Idku and Damietta**, combined with major pipelines including **SUMED and the Arab Gas Pipeline**, create opportunities for processing and re-exporting regional gas supplies . The ministry has confirmed readiness to receive and process **Cypriot gas**, with limited LNG export shipments continuing to optimize plant economics while domestic production recovers .

Alignment with National Energy Strategy

These decarbonization efforts align with Egypt's broader national strategy to increase **renewable energy contribution to 42% by 2030** and raise the **energy sector's contribution to GDP to 9.5%** . While nuclear power through the **El Dabaa project** will play a growing role in the electricity mix, the petroleum sector is focusing on reducing its operational carbon footprint while maintaining hydrocarbon output.

Downstream and Petrochemicals: Capturing Domestic Value

The fourth pillar of Egypt's strategy recognizes that upstream production alone does not maximize national benefit. By expanding refining capacity and petrochemical manufacturing, the ministry aims to capture greater value from each barrel produced, reduce imports of refined products, and generate higher-value export revenues.

Refining Capacity Expansion

Egypt is positioning itself to achieve **self-sufficiency in refined products** through major projects scheduled between 2026 and 2030 . Key among these is the **Middle East Oil Refinery (MIDOR) expansion**, which will increase processing capacity to **160,000 barrels per day (bbl/d)** , making it one of the largest and most sophisticated refineries in Africa .

The **Assiut National Oil Processing Company (ANOPC) diesel complex** represents another critical component, designed to meet growing domestic demand for high-quality diesel while reducing import requirements . These investments build on Egypt's existing position as the continent's second-largest refining capacity holder, with total capacity estimated at approximately **40 million tons annually** .

Petrochemical Export Targets

Perhaps the most striking downstream ambition is the target to nearly double petrochemical exports. The ministry aims to raise petrochemical exports from **$2.4 billion in 2025 to $4.2 billion by 2030**, representing a **75% increase** over five years . This growth will be driven by new production facilities, expanded feedstock availability from increased gas production, and strategic partnerships with technology providers.

Regional Integration and Export Markets

The downstream strategy extends beyond Egypt's borders through regional cooperation agreements. Recent **memoranda of understanding with Libya** aim to enhance collaboration in crude oil and natural gas refining, development, and transportation . Additionally, Egypt has signed agreements to export natural gas and petroleum products to Syria, demonstrating the growing regional market for Egyptian refined products.

The minister has also highlighted the potential for **Egyptian companies to participate in regional reconstruction projects**, particularly in Libya and Sudan, creating additional demand for construction materials, fuels, and petrochemical products . This regional integration strategy leverages Egypt's geographic position and established industrial base to capture reconstruction-related demand.

Digital Transformation and AI: The Technology Enabler

The fifth pillar of Egypt's five-year plan recognizes that modern petroleum operations require digital enablement. The ministry has therefore prioritized digital transformation and artificial intelligence as fundamental enablers of efficiency, investment attraction, and operational excellence.

Egypt Upstream Gateway (EUG)

The **Egypt Upstream Gateway (EUG)** has emerged as a cornerstone of the digital strategy. This platform streamlines investor access to geological data, accelerates project approvals, and provides comprehensive digital information that facilitates faster investment decisions . By digitizing exploration data and making it accessible to potential investors, the EUG reduces transaction costs and shortens the timeline from exploration interest to drilling commitment.

Seismic Survey Modernization

The ministry is launching new seismic survey projects using advanced technologies to unlock underexplored potential. A major project in the **Eastern Mediterranean** is being implemented by the Egyptian Natural Gas Holding Company

(EGAS) in partnership with the **Schlumberger–Veritas Alliance**, utilizing cutting-edge acquisition and processing techniques . Similar programs are underway in the **Western Desert and Gulf of Suez**, providing high-resolution data on promising opportunities that can be packaged for investor bidding rounds .

Mining Sector Digital Integration

While the petroleum sector remains the primary focus, digital transformation extends to mineral resources as well. Egypt will launch its **first comprehensive airborne geophysical survey in 40 years** during the first quarter of 2026, generating high-resolution data that will be integrated into a new digital mining platform . Minister Badawi has proposed linking this platform to the **Arab Platform for Future Minerals** to facilitate seamless data flow for Arab and international investors, supporting the broader goal of regional mineral integration.

AI Applications and Investment Risk Reduction

The ministry is actively exploring artificial intelligence applications in exploration activities to mitigate investment risks and reduce exploration costs . By applying machine learning algorithms to seismic and well data, AI can identify subtle patterns that might indicate hydrocarbon presence, improve drilling success rates, and optimize field development planning. This technological edge is particularly important in mature basins like the Gulf of Suez, where traditional exploration methods have diminishing returns.

Digitalization for Operational Efficiency

Beyond exploration, digital tools are being deployed to enhance production efficiency, optimize maintenance schedules, and reduce operational downtime. Real-time monitoring of pipeline networks, automated production optimization, and predictive maintenance analytics are being implemented across the sector to extract maximum value from existing infrastructure.

Economic Impact and Future Outlook

The five-year plan is not merely a technical exercise but a fundamental component of Egypt's broader economic development strategy. The energy sector has been designated as one of **five priority sectors** in Egypt's new economic plan, which aims to raise real GDP growth to **7.5% by 2030** and create **1.5 million new jobs** .

Macroeconomic Context and Import Pressures

The urgency of the plan is underscored by recent trade data. Egypt's petroleum imports reached **$6.4 billion in the first quarter of FY2025/2026 alone**, including approximately

$1.1 billion in natural gas and **$3.42 billion in crude oil** . While exports increased modestly by **8% to $1.3 billion**, driven by a $31.6 million rise in natural gas exports and a $57.8 million increase in crude oil exports, the substantial import bill continues to pressure foreign currency reserves .

The drilling campaign and production increases targeted by the plan are therefore essential for improving the trade balance and reducing external vulnerability. Every barrel produced domestically displaces an import barrel, preserving foreign currency for other essential uses.

Investment Multipliers and Job Creation

The **$5.7 billion exploration investment**, combined with major commitments from Eni ($8 billion) and BP ($5 billion), creates substantial economic multipliers throughout the Egyptian economy . Local content requirements, service

company contracts, and employment of Egyptian engineers and technicians ensure that a significant portion of this investment remains within the country. The mining sector specifically targets increasing its contribution to GDP to **5-6%** , with dedicated mining ports and infrastructure supporting export growth .

Regional Hub Ambitions

Minister Badawi has consistently emphasized Egypt's ambition to become a **regional energy hub**, leveraging its strategic location, existing infrastructure, and growing production . The country possesses **Africa's largest refining capacity**, world-class LNG liquefaction plants, and a network of pipelines that connect to regional markets . As Eastern Mediterranean gas discoveries continue to be developed, Egypt is well-positioned to offer processing, liquefaction, and marketing services to neighboring countries, generating revenue beyond its own production.

Challenges and Risks

Despite the ambitious targets and early successes, significant challenges remain. The global energy transition creates long-term uncertainty about fossil fuel demand, potentially affecting investment decisions for projects with multi-decade payback periods. Competition for investment capital is intense, with numerous countries offering attractive terms to IOCs. Egypt must continue refining its fiscal terms and regulatory framework to remain competitive.

Additionally, domestic consumption growth—particularly for electricity generation during summer peak periods—may absorb much of the new production, limiting export availability. The coordination between the petroleum and electricity ministries will therefore remain critical for balancing supply and demand .

Conclusion

Egypt's integrated five-year plan for the petroleum sector represents a comprehensive and ambitious strategy to reverse production decline, attract investment, and maximize national value from hydrocarbon resources. With **$5.7 billion committed to drilling 480 wells**, major investments from **Eni and BP exceeding $13 billion combined**, and a target to nearly double petrochemical exports to **$4.2 billion by 2030**, the plan provides a clear roadmap for sector development .

The early indicators are encouraging: production declines have been reversed, investor confidence is returning, and major international partnerships are being concluded. The integration of digital technologies, including the Egypt Upstream Gateway and AI applications, positions the sector for continued efficiency gains. Simultaneously, investments in green methanol and infrastructure efficiency demonstrate awareness of the energy transition and the need to position Egypt for a low-carbon future.

For international investors, the message from Minister Badawi is clear: Egypt remains open for business, with a stable investment climate, world-class infrastructure, and ambitious plans for growth . For domestic consumers, the promise is equally clear: reliable energy supply, reduced import dependence, and the economic benefits of a revitalized petroleum sector. As the plan unfolds through 2030, its execution will determine whether Egypt can translate its considerable resource potential into sustained energy security and economic prosperity.

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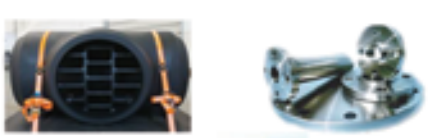

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Integrated Production Management Solution for Maximized Flow Assurance and Reservoir Recovery

Matt D. Richardson and Javier Bolivar, Packers Plus Energy Services

Abstract

As operators continue drilling longer laterals, current completion methods present challenges in maximizing stage counts while maintaining operational efficiency and minimizing operational risk. This paper will discuss recently developed completion systems, the Ultra-High Stage Count and the Latch-and-Perf Systems, and results in addressing completion challenges from field trials.

Some of the inherent risks and challenges associated with the current completion methods include:

(i) reaching the toe of long laterals with coiled tubing and wireline for setting, stimulation and millout operations; (ii) maintaining a full inside diameter during stimulation for an effective treatment; (iii) time and cost efficiencies; and (iv) logistics. The pros and cons of multiple completion technologies will be highlighted, including various sliding sleeve completion methods in both openhole and cemented applications, as well as plug-and-perf completions.

Design considerations, bench testing and field trials related to the Ultra-High Stage Count System and the Latch-and-Perf System will be presented. The Ultra-High Stage Count System uses pump down sleeve activation tools that build on the efficiency and cost savings associated with continuous pumping operations, requiring no downtime between stages as a unique latch-functioned sleeve actuation tool is pumped from surface to land and shift a corresponding sliding sleeve in the wellbore. Using full diameter sliding sleeves provides no restriction in the wellbore during treatment, maximizing pump rates. The Latch-and-Perf System also provides a full diameter during stimulation and uses a latch isolation tool deployed on wireline to isolate a stage for perforating and treatment, eliminating the requirement for plug setting and millout operations. Both systems are currently in field trials.

The novel Ultra-High Stage Count System presents a step-change in completion design as it overcomes challenges presented by drilling longer laterals without comprising any of the efficiencies and benefits from today's current completion technologies.

Introduction

The intensity of stimulation treatments has continued to increase with higher stage counts, proppant and fluid volumes as operators drill longer laterals to increase reservoir contact. Stage counts in the Vaca Muerta formation in Argentina, have increased from approximately 10 in 2010 to 32 in 2018, proppant volumes from 5M to 16M lbs, fluid volumes from 70,000 to 220,000 bbls and lateral lengths from 4,000 to 7,200 ft. Conventional plug-and-perf techniques as well as sliding sleeve technologies are still being used to complete challenging well designs. The ultra-high stage count (UHSC) and Latch-and-Perf systems discussed in this paper solve some of the challenges associated with different completion methods including intervention and mill out operations in extended reach laterals, inside diameter restrictions during stimulation and stage count limitations.

Review of Completion Methodologies

Plug-and-perf method

Conventional plug-and-perf wells pump a bridge plug down blank casing to isolate a section of the wellbore followed by perforating the casing, with a full inside diameter for stimulation. With the exception of the first stage which consists only of perforations, each subsequent stage requires making wireline (WL) or coiled tubing (CT) trips down the hole to set the bridge plug and fire perforations. Conventional bridge plugs require trips for millout operations post-stimulation prior to flowing back. The industry has, however, now developed degradable plugs which also eliminate millout.

Ball-activated sleeves

Ball-activated sleeve systems use continuous pumping operations for stage-to-stage stimulation, without any WL or CT runs. A ball pumped from surface to land in the seat of a sliding sleeve provides isolation inside the liner for stimulation of each stage. Upon the ball landing in the seat, applied hydraulic pressure from surface opens the sleeve for stimulation. Each subsequent stage is isolated for stimulation by

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pumping incrementally larger balls from surface. Using degradable balls mitigates the need for millout post-stimulation. The pump rate through the liner during stimulation is, however, limited by the inside diameter restrictions for the ball seats of each stage.

Coiled tubing activated sleeves

CT activated sleeves are activated with a shifting tool run on CT, with packer elements on the shifting tool typically used to provide isolation for stimulation. The stimulation treatment can be carried out via the CT or the annulus. The pump rates for stimulation are limited by the cross-sectional area of the CT and the annulus.

Ultra-High Stage Count System

The UHSC system is a full drift system where each stage is functioned with a sleeve activation tool (SAT) that is launched from surface and pumped downhole to the desired sliding sleeve. Each SAT consists of a set of unique fingers, a degradable ball seat and a degradable ball. The SAT can also be run on WL. Once the SAT lands in its corresponding sliding sleeve, the fingers grab the shift sleeve and hydraulic pressure builds until the differential exceeds the pre-determined opening pressure allowing access to the formation as well as isolating the previous stage. The stage is pumped according to the operator's stimulation program with no pressure drops other than the pipe friction as this system provides full ID during stimulation to enable maximum treatment rates. Once the stage is completed, a flush volume is pumped to minimize the sand in the wellbore and the next SAT is launched without any downtime.

The SAT is rated to 69 MPa (10,000 psi) differential. Once the ball and seat are fully degraded, production can begin, eliminating the need for a millout run. The SATs remain in the wellbore or they can be removed with a modified GS flow to release tool. Coiled tubing or WL operations are not required, which reduces operational risk. The technology works in both openhole and cemented applications.

Latch-and-Perf

The Latch-and-Perf system was created to replace the bridge plug in plug-and-perf operations. An isolation latch is deployed on WL where it is then pumped into a locator sub in the completion string that was previously installed as part of the liner. The isolation latch is then used to isolate the new stage from the previous stages below. Once the isolation latch is released from the WL, the perf charges are fired and the guns are then pulled out of the well. The latch uses the same degradable technology as the UHSC system which eliminates the need for millout operations before production. The degradable ball can be pumped down or run in place.

The Latch-and-Perf and UHSC systems can both be used with a variety of degradable ball materials ranging from phenolic, composite and polymer based materials to metal based materials. Attributes of both systems are described below:

Design Considerations and Bench Testing

Systems Design

The design requirements for the UHSC and Latch-and-Perf systems were laid out as follows:

i. Burst and collapse of the frac sleeve equal to or greater than the base pipe it is being run with;

ii. Maintain a full drift ID for maximum treatment rates;

iii. Have the latch able to withstand 10,000 psi pressure differential during fracturing operations, and

iv. Have the ability to retrieve the latch in the case of a misrun.

The design for the UHSC works on the principle of a timed latch. The SAT has a latch that will deflect out of the way when passing through sliding sleeves above the desired stage. Once the SAT reaches the corresponding sliding sleeve, the latch will not deflect and will land in place.

The design of the Latch-and-Perf centers around the WL adapter kit. The latch is held in a disengaged position until the WL setting tool is triggered and the latch is subsequently released and the latch is then free to engage.

Systems Testing

To validate the functionality of each design, a flow loop was used. The flow loop consisted of a loader, a casing joint, a sliding sleeve or locator sub, and an unloader. This setup allowed for launching the SATs and latches at rate, and catching them either in the tool or the unloader.

Testing for the UHSC system was done to ensure that the SATs passed through the sliding sleeves above to their corresponding sliding sleeves. Once that was verified the SATs were then pumped to their corresponding sliding sleeve to ensure they landed as designed. Then, the SATs were pumped to their corresponding sliding sleeve at increasing rates until they passed through without landing to establish an upper limit for landing rate.

Similarly, on the Latch-and-Perf system, the latch was tested to establish landing rates. The latch was pumped with a ball in place to at various rates to establish upper and lower landing rates and ensure the latch would not pass its landing profile.

Pressure testing was performed to ensure each system could handle 10,000 psi differential. To date, over 600 tests have been performed on the flow loop.

Case Studies

The UHSC system has been installed on four different wells as part of the field trial phase of the technology.

The wells have ranged from 2 to 50 UHSC stages. All aspects and contingencies of the technology have been tested during the field trials with resulting lessons learned such as modifications to the wire line adaptor kit and angle changes on the SATs. The wells have all been openhole with hydraulic packers separating the stages.

The Latch-and-Perf system has been used on one field trial well with 5 stages using the Latch-and-Perf technology at the toe of a long lateral plug-and-perf completion. The operator did not have to millout the stages since the degradable material allowed for production hours after completing the stage.

ACKNOWLEDGEMENTS

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CONCLUSIONS

The UHSC system is a new completion method that combines the benefits of multiple completion technologies. The system provides a full ID during stimulation and uses degradable ball and seat technology that eliminates the need for coiled tubing or WL intervention. The functionality and performance of the system has been successfully demonstrated using flow loop testing, as well as pressure testing both the latch on the SAT and the ball on seat to 10,000 psi differential.

The Latch-and-Perf system provides an alternative completion solution to plug-and-perf operators, not requiring pumping and setting of bridge plugs. Similar to the UHSC system, degradable technology eliminates the need for intervention for millout post-stimulation.

The field trials have demonstrated the capability of each system and provided lessons learned for making improvements. Further developments are ongoing that include development of high-strength degradable balls as well as high-strength and fully degradable latches.

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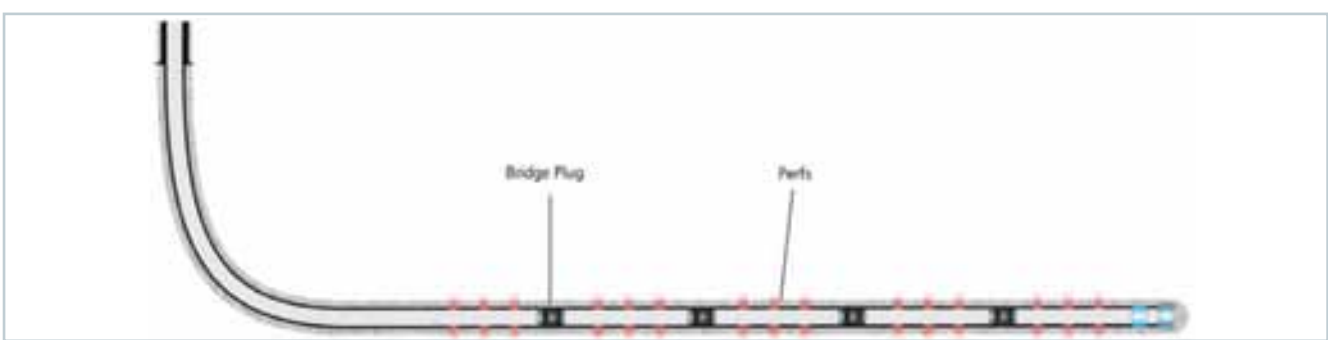
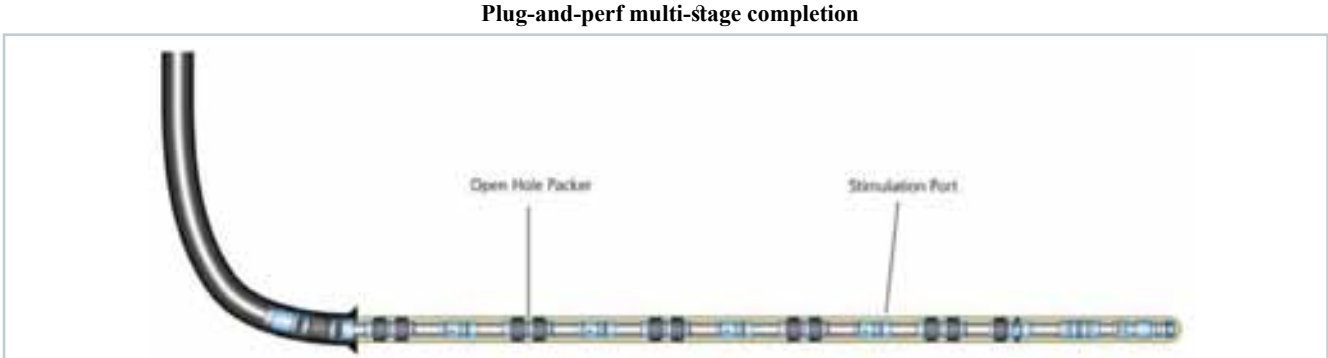
—Differences in Latch-and-Perf and UHSC systems

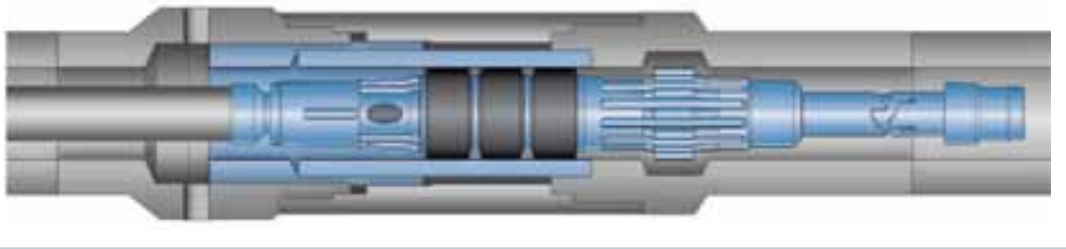
	Latch-and-Perf	UHSC
Open or cemented	Both	Both
Stimulation method	Perforations fired with perf gun	Sliding sleeves
Isolation and/or activation tool	Isolation Latch	SAT
Option to deploy isolation and/or activation tool with wireline	Only method for isolation	Yes. Standard method is to pump down tool from surface
Degradable ball	Yes	Yes
Degradable seat	No	Yes



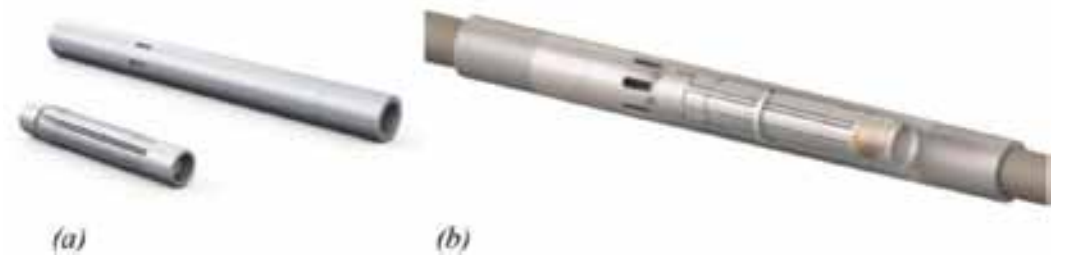
Plug-and-perf multi-stage completion



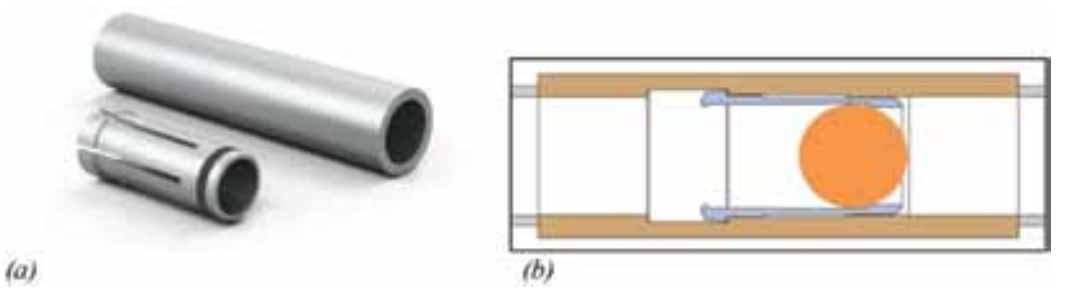
Open hole, ball-activated multi-stage completion



A coiled tubing shifting-isolation tool used to shift open a sliding sleeve in the wellbore and isolate zones below for stimulation



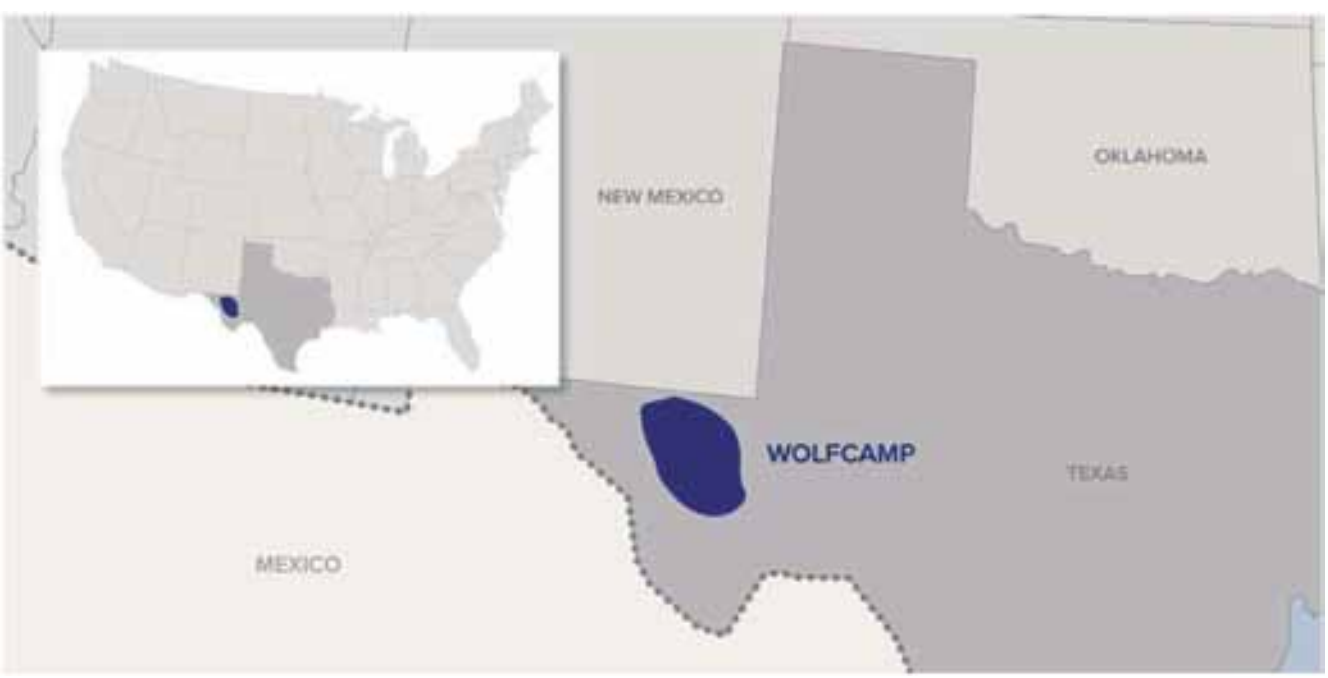
(a) UHSC sleeve actuation tool (front) and sliding sleeve (back)
(b) UHSC sleeve actuation tool latched into and shifting open a sliding sleeve



(a) Latch-and-Perf isolation latch (front) and locator sub (back)
(b) Isolation latch positioned inside locator sub

Flow loop testing set-up

Targeted location and formation (Woodford shale) of UHSC field trial wells



Targeted location and formation (Wolfcamp shale) of latch-and-perf field trial well

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Assessment of Multistage Stimulation Technologies as Deployed in the Tight Gas Fields of Saudi Arabia

Mohammed Al-Ghazal, Saad Al-Driweesh, Fadel Al-Ghurairi, Abdulaziz Al-Sagr and Mustafa Al-Zaid, all SPE, Saudi Aramco

Abstract

The increasing demand for oil and gas resources to support the worldwide development plans means that the petroleum industry is always actively engaged in exploring new frontiers in drilling and production, including tight multilayered reservoirs. It is becoming evident, more than ever, that producing the most oil and gas out of the drilled reservoirs is an absolute necessity. Accordingly, completion techniques have presented themselves as a crucial well construction parameter and a key to optimally producing wells.

Several completion techniques have been exhaustively trial tested in Saudi Aramco to determine the most successful completion mode for each reservoir. Among those various techniques, open hole multistage stimulation has demonstrated superior performance in minimizing skin damage and maximizing reservoir contact through efficient propagation of fracture networks within the rock matrix.

Overall, the production results from wells completed using open hole multistage stimulation systems — as deployed in the tight gas fields of Saudi Arabia — have been very positive. Of the approximately 40 wells where this new technology was utilized, the majority of the wells have met or exceeded the pre-stimulation expectations for gas production. Various multistage open hole completion systems were run over these 40 wells and the production results varied.

This study highlights these systems and discusses their impact during the fracturing operation and the final stabilized well production. This study will also present some case studies in multistage fracturing operations and investigate the operational impact on productivity enhancement. Following the lessons learned and best practices from these experiences, with correct implementation, the findings from this study should increase the probability of having a more successful multistage stimulation job from a productivity standpoint.

Introduction

While the well trajectory planning, reservoir characteristics and completion design are the important determinants of well productivity, open hole multistage (OHMS) stimulation completion has demonstrated the most significant effects on long-term stabilized production and reservoir draining efficiency.

Hydraulic fracturing is required for increased oil and gas recovery. Effective wellbore compartmentalization by means of open hole packers, especially in low and nonuniform permeability reservoirs, is key to successful multistage stimulation operations. It is, therefore, important to describe and compare the modes of operation and effects of the various downhole conditions on the main open hole packer designs available to our industry today.

Since the beginning of 2007, a total of 40 wells in Saudi Aramco's Southern Area tight gas fields have been completed with OHMS stimulation systems. Target formations have spanned over the Khuff B and C carbonates and the pre-Khuff (Unayzah) sandstone reservoir. Hole sizes have included both 8-3/8 in. and 5 - 7 / 8 in. and the

number of stages per well has been up to seven. Tables 1, 2, 3, 4, 5 and 6 show more details about the 40 wells over which OHMS stimulation systems were run by the technology supplier.

Out of the 40 wells:

35 wells (87.5%) have exceeded the target production gas rates

32 wells (80%) have exceeded target rates with enough Flowing Wellhead Pressure to connect directly to the trunkline

2 wells (13%) have exceeded target gas rates, but could not be connected to trunkline due to insufficient FWHP

5 wells (12.5%) could not meet the expected post-stimulation targets

Definition of an Unbalanced and Balanced System. An unbalanced OHMS completion system design means

that the lowest stage in the completion is open at the bottom to allow fracturing out of the toe stage (Fig. 1). This is

opposed to a balanced system where the first stage stimulation zone is between two packers (Fig. 2).

A. Comparison Between the Open Hole Packers.

Inflatable packers. Often referred to as external casing packers (ECP); these are normally constructed of base pipe similar to the completion casing/liner/tubing. The construction is such that the packer element is mechanically fixed to the outside diameter (OD) of the base pipe at both ends leaving an annulus between pipe OD and element inside diameter (ID). The base pipe would normally have a valve system that should open at a predetermined pressure to allow tubing fluid to fill the annulus and "inflate" the element. The valve system should then trip closed at another predetermined higher pressure to lock the fluid inside the element and retain the post-inflate element dimensions and seal against the wellbore.

Inherent design limitations (very low differential pressure capabilities) of these packers have discounted their use in OHMS system applications.

Swell packers. Often referred to a swellable element packers (SEP) and/or reactive element packers (REP), these are also constructed of base-pipe similar to the completion liner/tubing. With this application, specific rubber is molded, thermally-cured and glued to the base pipe.

Sometimes back-up rings are integrated in the design to keep the rubber element in place. Swell packers are typically between 10 to 32 ft long with various grades and types of rubber. Upfront design and planning is required so that the proper packer is selected for each operation (job-specific design).

There are three factors dictating the downhole performance of swell packers:

- Bottom-hole temperature (most determinant factor, temperature variations could be crucial)
- Wellbore fluid type (completion, stimulation and production)
- Ratio of base pipe OD to wellbor

Significant pre-job data should be collected for each wellbore section.

Once the necessary information is gathered it is possible to estimate the packer dimensions (base pipe OD and element thickness) as well as the swell period required to achieve the desired pressure rating.

As soon as the element comes in contact with its corresponding fluid (water or hydrocarbon), it begins to swell. Therefore, to cater for premature swelling, retardant chemicals are normally mixed in the rubber recipe or otherwise applied to the element OD depending on the swell packer supplier company.

The swell process is a function of time, temperature and fluid type, so these crucial factors must be carefully

observed during job design and execution.

When using a swell packer type, such as Supplier C, the retardant chemical is applied to the outside of the swell packer element. This typically creates a huge risk when running in the open hole and the possibility of the retardant chemical being removed or scrapped-off and premature swelling could occur. The optimum swell packer to use is where the retardant chemical is mixed in the rubber and this possibility of removal and premature swelling does not occur. In addition Supplier C's swell packer is 32ft in length with a 5.60" outside diameter (OD) — this makes deployment a major issue when running several stages in the well and the risk of not reaching the target depth due to mechanical or differential sticking issues. The shorter the length and lesser the OD the better regarding swell packers from the deployment standpoint.

The time to swell could range from hours to weeks dependent on well conditions and element design and swell packer company.

Mechanical packers. Hydraulic-set, mechanical open hole packers use rubber pack-off elements, which are compressed when set, to form a seal between the completion and the open hole. A successful packer design used in the Saudi Aramco Southern Area gas fields is an open hole packer that features more than one rubber element.

The setting mechanism of this packer is characterized by a dynamic setting mode that uses the fracture surface pumping pressure to continuously adjust the pack-off force on each element to maintain sealing. When the packer is subject to pressure higher than its initial setting pressure, the ratchet will move further and pack-off the element – this not only copes with borehole changes, but also increases the differential pressure rating due to additional pack-off force delivered to the element with the increased hydrostatic pressure.

The open hole mechanical packer is approximately 5ft long, which makes it readily adaptable to high doglegs and build rates.

The hydraulic fracture sleeve provided by Supplier B (HFS-B) has seen problems with opening on some operations to

date (Table 7, yellow column). On one well it took over two days of pressure cycling using coiled tubing (CT) with jetting acid to finally shift it open. The port was set to 4,500 psi and finally opened at 7,474 psi (Fig. 6). A following well was a similar case and the sleeve took even longer to open requiring application of 8,000 psi (Fig. 7).

Finally, on a third well, the P- sleeve had been cycled for three days, first to 7,100 psi through the wellhead and second to 12,100 psi through a tree saver, and it still did not open.

On all Supplier A jobs the HFS-A has opened immediately as planned, except on one well where barite mud was used for the first time. It was concluded that barite should never be used again due to the potential problems of mud particulates plugging the wellbore pores and preventing injectivity into the reservoir rock. Despite the mud issues, the HFS-A still opened after a short period of pressure cycling.

C. Comparison between the Unbalanced and Balanced Lower Completions.

In two key wells, large pressure drops were seen when pumping into the first stage. In the first well, this was seen during the first injection step rate test (SRT), from 10,100 psi to 8,400 psi (Fig. 8). In the second well a similar drop in surface pressure was observed following spotting acid/mutual acid during the main treatment, where there was a drop of 5,254 psi surface pressure from initially 10,800 psi (Fig. 9).

When pumping commenced into stage 2 for both wells, it was very clear that there was communication between zones and that the packers were likely no longer holding pressure. As seen in Fig. 10 and 11, there was an immediate pressure decline to 0 psi surface pressure when pumping was stopped.

For the two initial gas well completion operations in 2007 the OHMS systems were all in a balanced configuration.

Due to the deployment issues seen, from mechanical and/or differential sticking where the completion was unable to reach the target depth it was decided that an unbalanced system would be preferred. The theory was that if the lower multistage completion was unable to reach target depth, then the toe section of the well would still be able to be treated.

The important consideration is that the open hole swell or mechanical packers offer near negligible anchoring capability. From testing performed in open hole conditions, it is possible to piston the packer uphole with certain overpull depending on various downhole conditions. Taking the open hole diameter and the high pressures involved during the stimulation treatments the upward forces created that are acting on the lower-most packer are very high (up to 400 000 lb upward force on the lower packer Fig 12 & Fig 13).

With an unbalanced system and high forces acting on the bottom packer, the completion will undergo a rapid upwards pistoning effect and all of the lower completion will stroke a significant distance uphole. This phenomenon is well proven and simply related to the forces resulting from the pressures.

For example, with an unbalanced system inside an 8-3/8 in. hole, the piston area trying to push the packers up the hole is 37.74 in.^{2}, resulting in an upwards force of 377,400 lb with 10,000 psi differential pressure applied. In this case, the tubing shrinkage increases the force by approximately another 50,000 lb. Hence the total upwards force is ~420,000 lb.

For a system inside an 8-3/8 in. hole, the piston area on a balanced job trying to push the packers apart is 55.09 in.2, so with 10,000 psi applied there is over 550,000 lb of force trying to part the tubing. This is counteracted somewhat by tubing shrinkage due to the temperature drop, dropping the force down to ~500,000 lb.

In a 5-7/8 in. hole the numbers are 27.11 in.^{2} for balanced and 17.49 in.^{2} for unbalanced, equaling 270,000 lb (220,000 lb with shrinkage) and 175,000 lb (225,000 lb with shrinkage).

Therefore, as in Table 8, the upward movement of the lowest open hole packer can be as much as 15ft. When the pressure is released, the completion will slide back towards its original position. With every pressure cycle on this lowest zone, the upward force will be created again resulting in compression of the liner. The implication is that with a set packer sliding along the open hole rockface several times during the pressure cycles, it would be highly likely that the packer seals will be damaged and thus reduce its sealing ability, resulting in communication between zones. Initially, this would be between zones 1 and 2, but also subsequent zones as with movement of the entire completion all open hole packer seals are very likely to be damaged.

Carbonate and Sandstone Completion Configurations

For all formation types, a balanced system would be the preferred method of running the multistage fracturing completion. This is simply because the first stage is in a balanced condition and the forces created during the fracturing treatment are equally applied, in opposing directions, to each packer. For carbonate formations, the need for a balanced system is greatly increased because with an unbalanced system the potential risk of the acid treatment eroding away the formation around the open hole packer is higher than in sandstone formations.

Additional Recommendations for Future MSS Operations From improved operational running procedures and use of centralization of the Liner almost all of the recent systems have reached target depth without issue1.

The recommendation for forthcoming wells has been to standardize on balanced systems. The idea behind the design is to run a balanced multistage completion with a single joint above the circulation valve assembly (with float collars and guide shoe). Above the lowest packer will be the first stage hydraulic. In this way all forces/movement will be balanced and the open hole anchor packer will be well set with reduced chance of erosion from the acid treatment. Secondly, as an added precaution to eliminate any communication seen between Stage 1 and Stage 2, it is recommended to place an extra open hole packer between the stages.

Conclusions

This investigation is part of a more detailed report currently being complied of evaluations performed on the multistage fracturing and completion efficiencies. High rate, high pressure acid fracturing treatments put the completion equipment to their limits and there is much still to be learnt on the interaction with carbonate formations.

The well direction and resulting fracture orientation is certainly a major influence on the fluid placement. This investigation focused solely on the completion equipment set-up and configurations.

The completion that was run on the second well by Supplier B was an unbalanced system, and the completion was only anchored at the top of the liner by the liner hanger. The lowest single sealing packer would begin to slide immediately when pressure is applied to it. A major pressure drop of approximately 1,700 psi was seen immediately during the step rate test when pumping water at approximately 8,300 psi differential pressure (surface pressure less than reservoir pressure).

With 8,300 psi differential pressure and 145,164 lbf applied to the lowest packer in the 5-7/8 in. open hole, with 5,284 ft of liner in total, the upwards movement can be as much as 12 ft. This would potentially damage the packer seal and thus allow communication between zones.

The completion used on the first well saw a pressure drop occur following three days of pumping, including an acid treatment designed to dissolve some of the barite mud away. Stage 1 of the completion system had been pressure cycled many times up to its maximum differential of 9,600 psi by the time the pressure drop was observed.

As a result of the deployment issues with failing to reach the target depths and port opening problems, Supplier C was placed on hold from future operations in February 2011 and has not resumed multistage stimulation operations.

As a result of the hydraulic P-Sleeve problems as well as coiled tubing mill-out problems seen, Supplier B was placed on hold from future operations in March 2011 and has yet to resume multistage stimulation operations.

For future wells, it is recommended to run a balanced system with an open hole packer at the bottom of the first stage prior to the hydraulic fracturing sleeve.

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1. SPE 130894 - Al-Jubran, Hasan, Wilson, Stuart, and Johnston, Bryan, "Successful Deployment of Multistage Fracturing Systems in Multilayered Tight Gas Carbonate Formations in Saudi Arabia," SPE 130894 presented at the 2010 SPE Deep Gas Conference and Exhibition, 24-26 January, Manama, Bahrain.

ACKNOWLEDGMENTS

The authors thank Saudi Aramco for permission to publish this paper.

SI Metric Conversion Factors

ft x 3.048* E – 01 = m

in x 2.54* E + 00 = cm

lbf x 4.448222 E + 00 = N

md x 9.869233 E – 04 = μm^2

psi x 6.894757 E + 00 = kPa

bbl x 1.5898 E – 01 = m^3

Fig. 1—Unbalanced system with the hydraulic fracture sleeve (stage 1) at the bottom of the lower completion.

Fig. 2—Balanced system with the hydraulic fracture sleeve (stage 1) between two packers.

Fig 3: Inflatable packer element

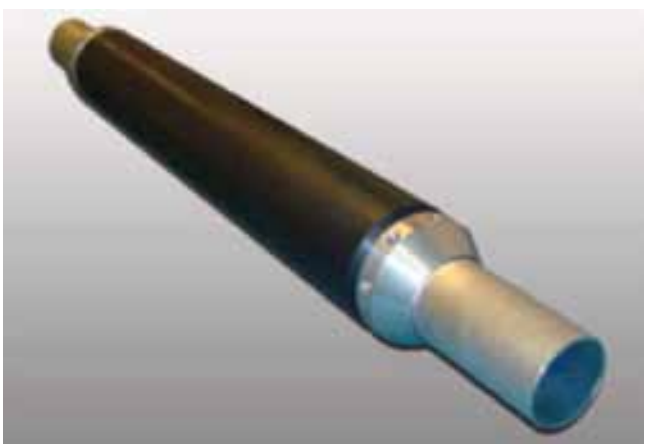

Fig 4: Swellable packer element

Fig 4: Swellable packer element

Fig 5: Mechanical Open Hole packer

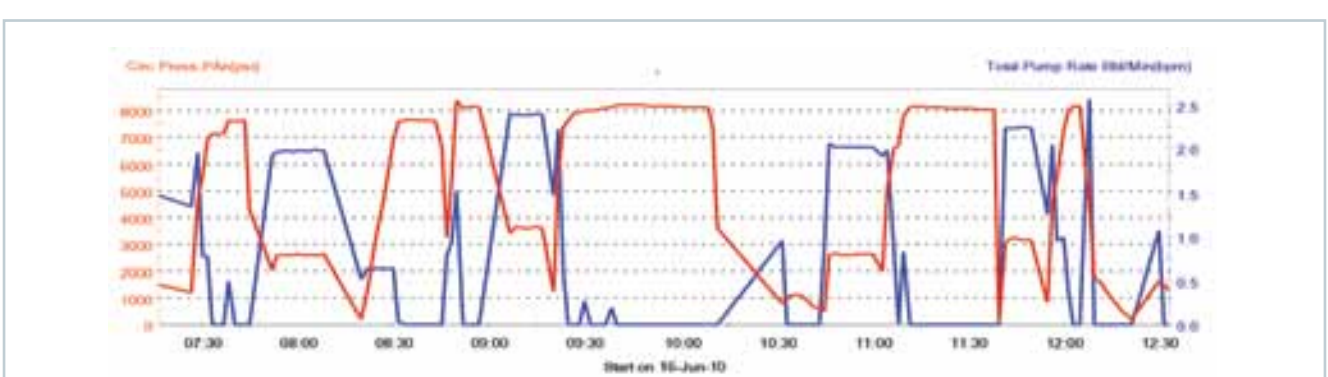

Fig. 6—Treatment chart for first well. CT was attempted six times to open the HFS-B, but it did not open. The maximum wellhead pressure reached was approximately 8,400 psi.

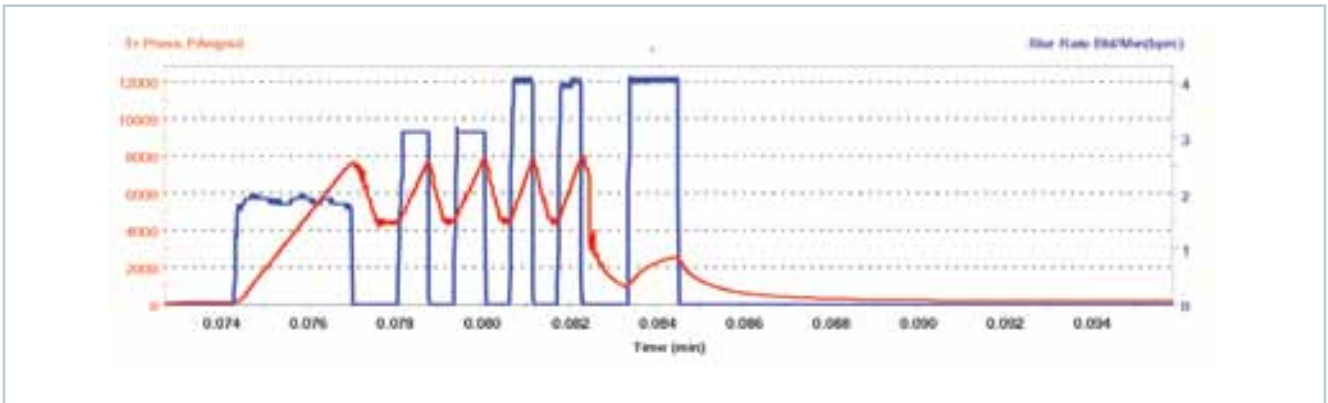

Fig 7— Treatment chart for WELL #11: Frac pumps attempted five times to open the HFS-B by bullheading. On the fifth attempt, it was opened at 8,000 psi and 4 bpm.

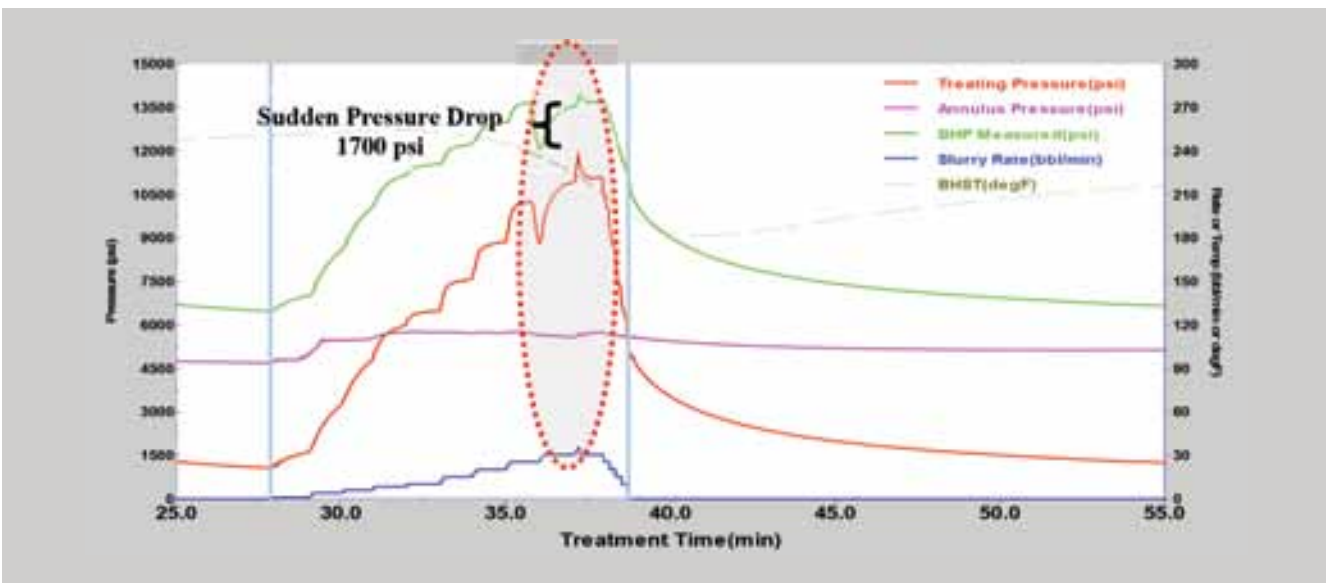

Fig 8: Pressure drop seen on first well during Injection Test within Water.

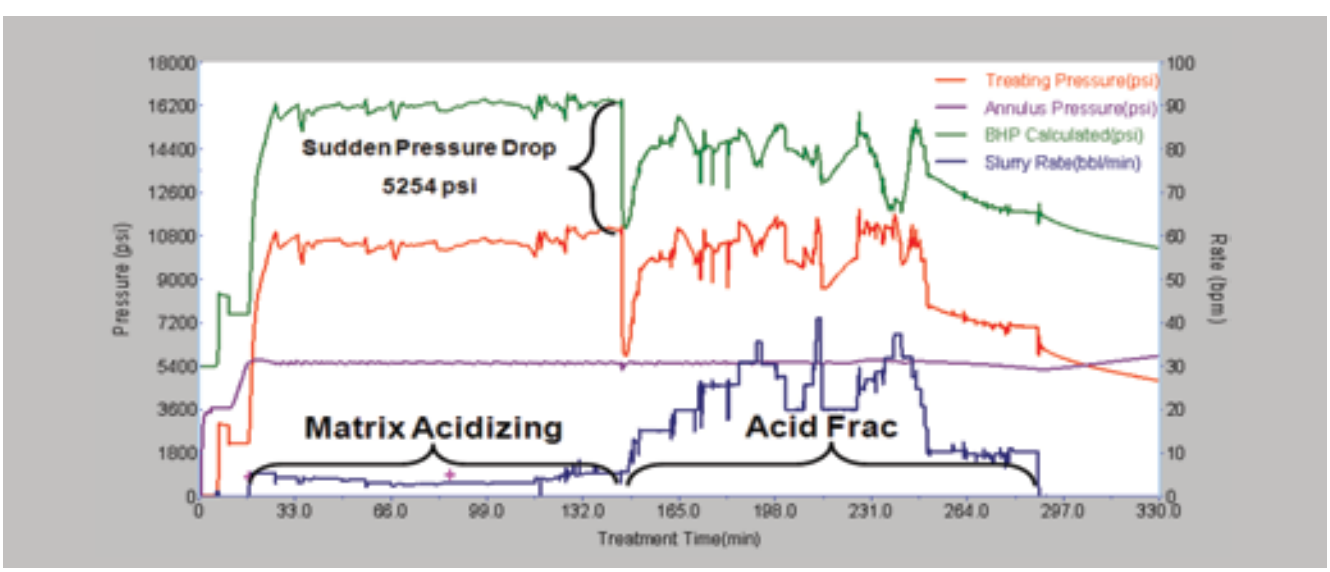

Fig 9: Pressure drop seen on second well during Main Treatment.

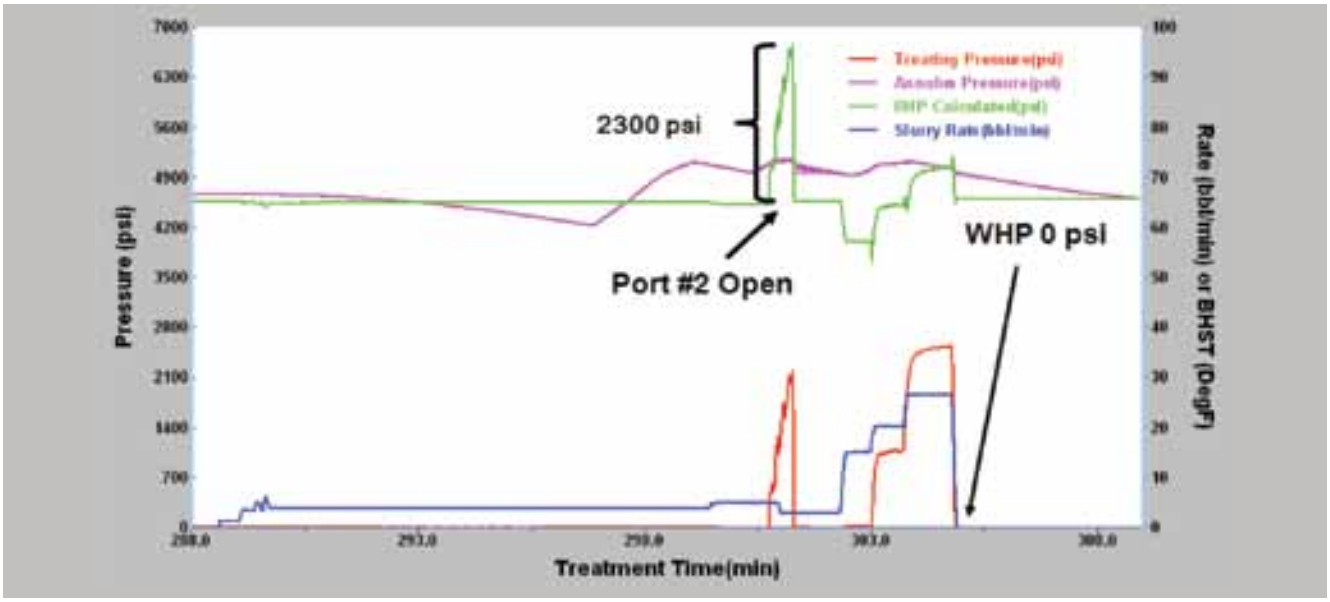

Fig 10: Communication between Stages 1 and 2 on first well

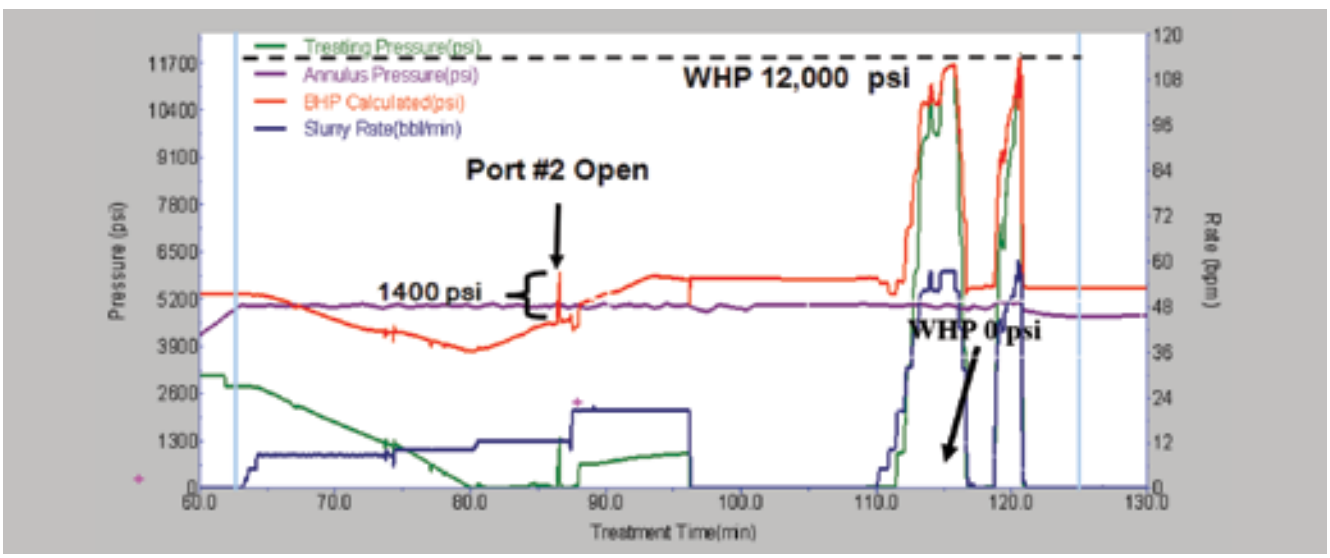

Fig 11: Communication between Stages 1 and 2 on second well

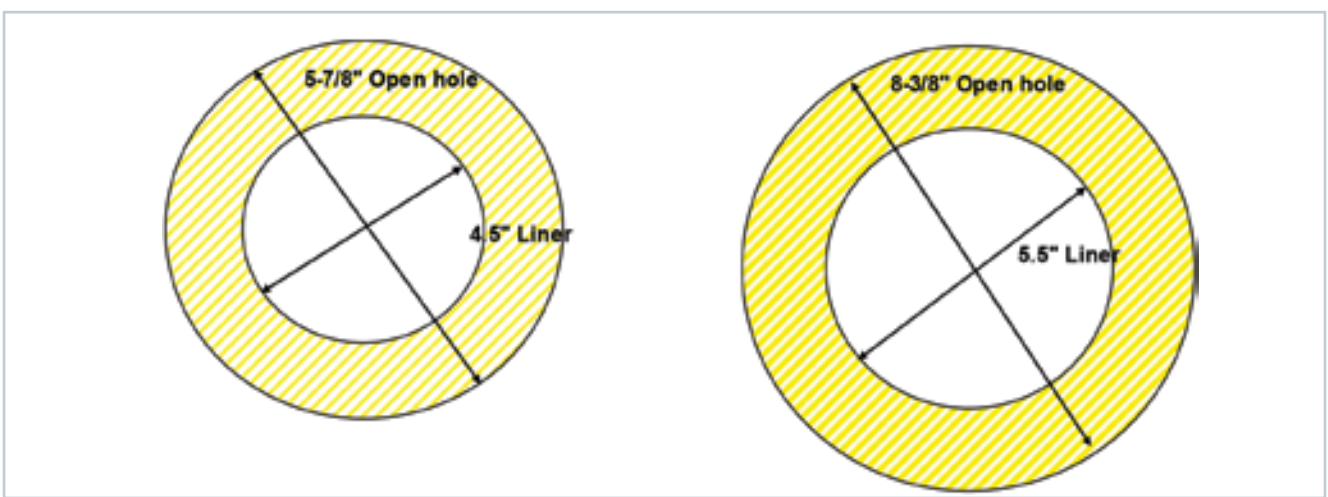

Fig 12: Area (shaded in Yellow) where the force is applied onto the lowermost Open Hole Packer

Fig 13: Diagram showing the calculated forces acting on the Lower Open Hole packer during the 1st Stage treatment in an Unbalanced system.

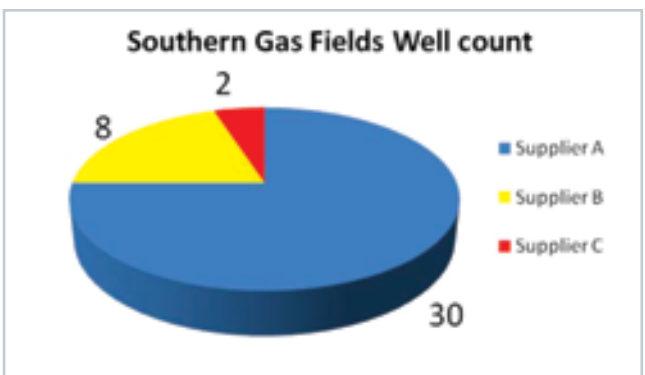

Table 1: Number of Wells per Supplier completed

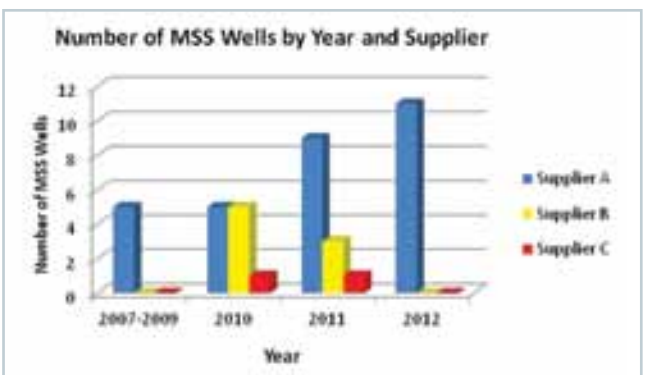

Table 2: Number of MSS wells per Year per Supplier

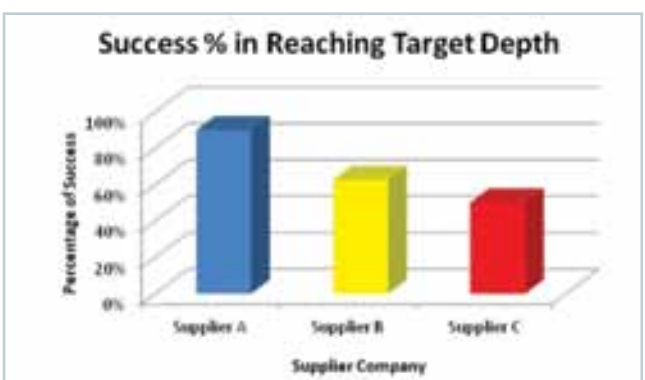

Table 3: Percentage Success in Reaching Target Depth

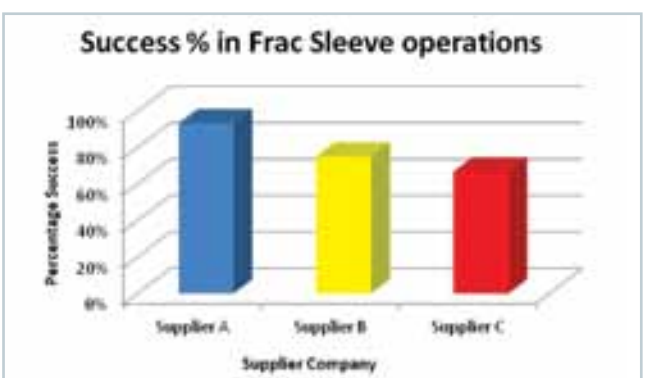

Table 4: Percentage Success in Opening Frac Sleeves

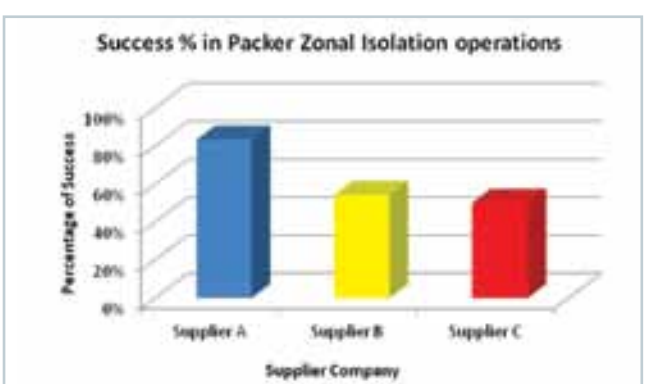

Table 5: Percentage Success in Packer Zonal Isolation

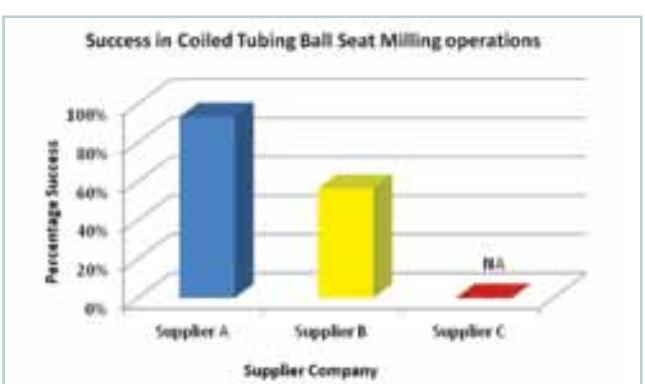

Table 6: Percentage Success in Opening Frac Sleeves

Table 7: Summary table showing the history of the hydraulic frac port openings on all MSS operations

WELL #6	8-3/8"	5.5	4.7	17.74	16,200	6,600	9,600	362,304	50,000	412,304	80,000	3,280	8ft
WELL #11	5-7/8"	4.5	3.813	17.49	13,500	5,200	8,300	145,164	50,000	195,164	60,000	5,284	12ft

Table 8: Liner upward movement resulting from applied forces on the lower packer when treating Stage 1 for an unbalanced system

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كشف جديد لأباتشي يضيف 26 مليون قدم مكعب غاز و2700 برميل متكثفات يوميًا

في إطار نتائج جهود تحفيز الاستثمار لزيادة الإنتاج المحلي من الغاز الطبيعي وتقليل فاتورة الاستيراد، نجحت شركة أباتشي العالمية، بالتعاون مع الهيئة المصرية العامة للبترول، في تحقيق كشف جديد للغاز الطبيعي بالصحراء الغربية، وذلك عقب حفر البئر الاستكشافية X-SKAL ١ بمنطقة جنوب كلابشة.

وأظهرت نتائج الاختبارات الأولية للبئر تحقيق معدلات إنتاج يومية تُقدر بنحو ٢٦ مليون قدم مكعب من الغاز الطبيعي، و ٢٧٠٠ برميل متكثفات.

ويعكس هذا الكشف نجاح الحوافز والإجراءات التي نفذتها وزارة البترول والثروة المعدنية، والتي أسهمت في تشجيع شركة أباتشي على التوسع في أنشطة البحث والاستكشاف وزيادة استثماراتها، خاصة في المناطق الجديدة المجاورة لمناطق امتيازها القائمة.

ويقع الكشف الجديد في إحدى المناطق التي تم إسنادها للشركة مؤخرًا، بالقرب من مناطق عملها الحالية، بما يعزز جدوى الاستثمار، وخفض التكاليف، في ظل الاستفادة من القرب الجغرافي من البنية التحتية والتسهيلات الإنتاجية القائمة.

ومن شأن هذا التوجه أن يسهم في تسريع عمليات التنمية ووضع الاكتشافات الجديدة على خريطة الإنتاج في أقصر وقت ممكن، بما يدعم تعويض التناقص الطبيعي في إنتاج الحقول القديمة، مع خفض النفقات الرأسمالية.

246 مليار جنيه حجم أعمال بتروجت في تنفيذ المشروعات داخل مصر وخارجها

أكد المهندس كريم بدوي، وزير البترول والثروة المعدنية، خلال الجمعية العامة لشركة «بتروجت» الذراع التنفيذية والتصنيعية لقطاع البترول المصري أن الشركة تمثل داعم رئيسي لتنفيذ المشروعات البترولية والقومية ومشروعات البنية التحتية، كما أصبحت علامة ذات قيمة تنافسية كبيرة خارج مصر، مستندة إلى ما تمتلكه من خبرات متراكمة وسجل نجاحات متميز.

وأشار الوزير إلى الدور المهم الذي قامت به بتروجت بكفاءة عالية في إدارة وتنفيذ مشروع ربط وتشغيل سفن التغييز، بما أسهم في تأمين إمدادات الغاز لكافة قطاعات الدولة.

وأشاد بالاهتمام بمعايير السلامة في المشروعات والأعمال المنفذة، مؤكدًا أنها مسئولية أساسية وأخلاقية لحماية الأرواح والعنصر البشري، إلى جانب كونها عاملًا مؤثرًا في سمعة الشركات وفرص نموها وحجم الأعمال الجديدة التي يمكن أن تجتذبها.

ومن جانبه، استعرض المهندس وليد لطفي، رئيس شركة بتروجت، أبرز نتائج أعمال الشركة خلال عام ٢٠٢٥، مؤكدًا نجاحها في تعزيز مكانتها كمقاول عالمي لتنفيذ المشروعات، حيث سجلت حجم أعمال وتعاقدات جديدة داخل مصر وخارجها بقيمة ١٢١ مليار جنيه، مقابل ١١٢ مليار جنيه في عام ٢٠٢٤، بما يعكس استمرار الأداء القوي للشركة رغم التحديات العالمية والإقليمية والتقلبات الجيوسياسية والظروف الاستثنائية التي تؤثر على صناعة المقاولات.

وأوضح أن الشركة نجحت كذلك في تأمين حجم أعمال وتعاقدات مستقبلية بقيمة ٢٤٦ مليار جنيه حتى عام ٢٠٢٩.

وأشار إلى أن بتروجت واصلت اقتحام مجالات عمل جديدة خلال عام ٢٠٢٥، من بينها مشروعات الطاقة النووية، لتصبح أول شركة مصرية تشارك في مشروع الضبعة النووي، مستعرضًا ما تم تنفيذه من مشروعات متنوعة داخل مصر وخارجها في مجالات البترول والغاز والبنية التحتية، ومشاركتها في

تنفيذ مشروع "نيوم" العملاق بالمملكة العربية السعودية، مع التوسع في الأسواق الإقليمية من خلال عقد شراكات استراتيجية مع العديد من المؤسسات، ورفع عدد الأسواق الفعلية والمستهدفة إلى ٢٨ دولة، بما يدعم تنافسية الشركة ويعزز فرص نموها.

وأضاف رئيس بتروجت أن الشركة حصلت على شهادة SCC في السلامة، بما يؤهلها للعمل كمقاول في دول أوروبا، كما نفذت حزمة من المبادرات لتعزيز السلامة والصحة المهنية وحماية البيئة في مواقع العمل، ولفت إلى انتهاء الشركة من إنشاء وتجهيز مدرسة السلامة وإدارة المخاطر بالعين السخنة، التابعة لقطاع البترول، بالتعاون مع الهيئة المصرية العامة للبترول وشركتي بكتل وبي بي ، لتدريب الكوادر في مجال السلامة.

كما أشار إلى دعم مراكز التصنيع المحلي للمعدات ومكونات المشروعات التابعة للشركة في مصر وخارجها، حيث تعمل على إنشاء مركزين جديدين للتصنيع في العلمين والتبين، فيما تمتلك مراكز خارج مصر في العراق والإمارات، فضلًا عن مركز جديد جارٍ إنشاؤه في المملكة العربية السعودية، والتي حظيت باعتماد كبرى شركات الطاقة مثل أرامكو و أدنوك و سوناطراك.

البترول: إنهاء وتسوية مستحقات شركاء الاستثمار في إنتاج البترول والغاز بنهاية يونيو المقبل

أعلن المهندس كريم بدوي وزير البترول والثروة المعدنية العمل على الانتهاء من تسوية وسداد كافة مستحقات شركاء الاستثمار في إنتاج البترول والغاز بنهاية يونيو من العام الحالي، بالتوازي مع استمرار الالتزام الكامل بسداد الفاتورة الشهرية، تنفيذًا لتكليفات الرئيس عبد الفتاح السيسي بالإسراع في تسوية مستحقات الشركاء، بما يعزز الثقة ويحفز الاستثمار اللازم لزيادة الإنتاج المحلي من البترول والغاز، ومن ثم تقليل الفاتورة الاستيرادية.

وأشار إلى أن وزارة البترول والثروة المعدنية عملت على الخفض التدريجي لمستحقات شركاء الاستثمار، من نحو ٦,١ مليار دولار في ٣٠ يونيو ٢٠٢٤ إلى نحو ١,٣ مليار دولار حاليًا، تم التنسيق اللازم تمهيدًا للانتهاء الكامل من تسويتها بحلول ٣٠ يونيو ٢٠٢٦، بالتوازي مع الالتزام بسداد المستحقات الشهرية بانتظام.

وأوضح الوزير أن الوزارة أولت منذ النصف الثاني من عام ٢٠٢٤ اهتمامًا بالغاً بتنفيذ إجراءات تحفيزية للاستثمار أسهمت في تقليص المستحقات المتراكمة مع الانتظام في السداد الشهري أولاً بأول ، كما عملت بصورة تكاملية مع عدد من وزارات ومؤسسات الدولة، وفي مقدمتها البنك المركزي المصري ووزارة المالية، لمعالجة هذا الملف وخفض المستحقات، وذلك بمتابعة ودعم متواصلين من رئيس مجلس الوزراء الدكتور مصطفى مدبولي.

وأضاف أنه نتيجة لهذه الإجراءات والمحفزات والالتزام بالسداد الشهري، تم احتواء ووقف تراجع الإنتاج الذي نتج عن تباطؤ الاستثمارات منذ العام المالي ٢٠٢١ / ٢٠٢٢، بسبب تأخر سداد المستحقات في ظل التحديات الاقتصادية التي شهدتها تلك الفترة.

وأوضح أن هذه الخطوات انعكست إيجاباً علي إعادة تنشيط استثمارات البحث والاستكشاف وتنمية الحقول، .

ولفت إلى أن القطاع يواصل العمل علي زيادة الإنتاج المحلي وتقليل الفاتورة الاستيرادية من خلال تنفيذ خطة طموحة لحفر نحو ١٠١ بئر استكشافية للبترول والغاز خلال عام ٢٠٢٦، ضمن خطة خمسية تستهدف حفر أكثر من ٤٨٠ بئرًا في مختلف المناطق البترولية، إلى جانب خطط تنمية الحقول القائمة التي يجري تنفيذها بوتيرة سريعة ومكثفة.

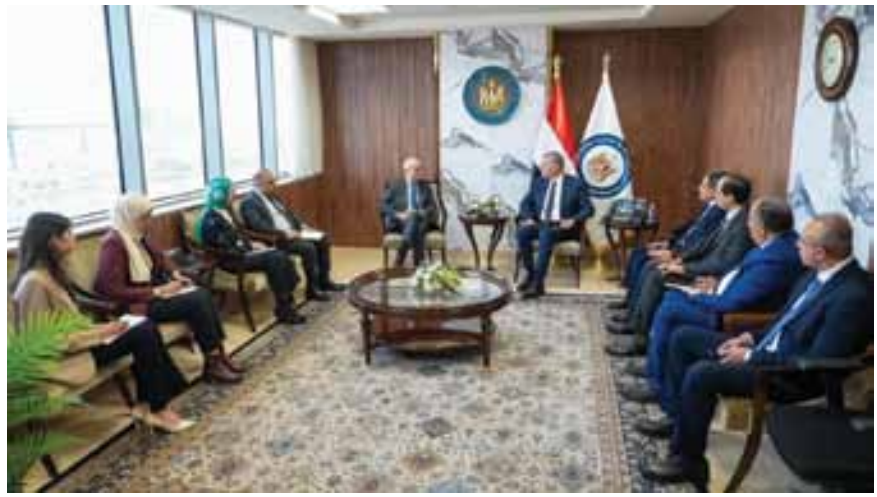
وأشار إلى أن استعادة الثقة مع الشركاء شجعت الشركات العالمية العاملة في مصر على توسيع أعمالها خلال السنوات الخمس المقبلة وتبني الوزارة خطة خمسية بالتعاون مع شركاءها لزيادة الاكتشافات والإنتاج، موضحًا أن شركة إيني الإيطالية أعلنت خطة استثمارية بنحو ٨ مليارات دولار، وبي بي البريطانية بنحو ٥ مليارات دولار، وأركيوس الإماراتية بنحو ٢ مليار دولار، إلى جانب تعزيز شل العالمية لاستثماراتها في البحث عن الغاز وإنتاجه في البحر المتوسط، وكذلك توسع شركة أباتشي في استثماراتها لإنتاج الغاز والزيت الخام في الصحراء الغربية وزيادة مناطق البحث والاستكشاف للشركة في مصر خلال العام الماضي حيث يبلغ حجم استثمارات الشركة مايفوق ٤ مليارات دولار.

أركيوس إنرجي تبدأ حملة حفر جديدة لبئرين استكشافيين للغاز في مصر

في إطار خطة قطاع البترول لحفر اكثر من ١٠٠ بئر استكشافية للغاز والبترول خلال عام ٢٠٢٦ بالتعاون مع شركاء الاستثمار ، تعتزم شركة أركيوس إنرجي الكيان المشترك بين أدنوك الإماراتية وبي بي» البريطانية ، بدء حفر بئرين استكشافيين جديدين للغاز في البحر المتوسط، وهما «أتول غرب» و«نوفريت»، وذلك ضمن حملة حفر جديدة للشركة فى مصر تستهدف تعزيز أنشطة البحث والاستكشاف.

وفي هذا السياق، غادرت سفينة الحفر «Valaris DS-12» ميناء لاس بالماس الأسبانية في طريقها إلى مصر، تمهيدًا لبدء عمليات الحفر. ويأتي ذلك عقب زيارة تفقدية أجرتها الشركة للاطمئنان على جاهزية السفينة، حيث أشادت بمستوى كفاءة العمليات ونظم السلامة المطبقة، فضلًا عن كفاءة الكوادر البشرية العاملة على متنها.

وأكدت أركيوس إنرجي التزامها بتعزيز استثماراتها في مصر، حيث تضعها في صدارة استراتيجيتها كنقطة انطلاق رئيسية لأنشطتها في منطقة شرق المتوسط. كما تعمل الشركة على تنفيذ خطة خمسية تستهدف مضاعفة الإنتاج ودعم جهود تنمية موارد الغاز فى مصر .



مصر وتوتال إنرجيز تبحثان مشروع ربط حقل كرونوس القبرصي بالبنية التحتية للغاز

التقى المهندس كريم بدوي، وزير البترول والثروة المعدنية، مع باسكال بريان، المدير العام لشركة توتال إنرجيز في مصر وقبرص، لبحث تعزيز التعاون في قطاع الغاز الطبيعي ومتابعة تطورات مشروع ربط حقل "كرونوس" القبرصي بالبنية التحتية المصرية، بالشراكة مع إيني.

تعزيز مكانة مصر كمركز إقليمي للغاز

استعرض اللقاء الخطوات التنفيذية المقبلة للمشروع الإقليمي لنقل الغاز، والذي يُعد نموذجًا للتكامل الإقليمي في تعظيم الاستفادة من موارد الغاز والبنية التحتية المتاحة، ويدعم مكانة مصر كمركز إقليمي لتداول وتجارة الغاز. حضر الاجتماع المهندس سيد سليم، العضو المنتدب التنفيذي لإيجاس، وقيادات وزارة البترول.

وزارة البترول تعلن نجاح حفر أول بئر استكشافية للغاز لشركة شل في البحر المتوسط خلال 2026

أعلنت وزارة البترول والثروة المعدنية عن نجاح حفر أول بئر استكشافية للغاز الطبيعي لشركة شل في البحر المتوسط خلال عام ٢٠٢٦، وذلك في إطار خطة الشركة للتوسع في أنشطة الاستكشاف والإنتاج بمناطق امتيازها.

ويأتي هذا الإنجاز ضمن استراتيجية قطاع البترول لزيادة الإنتاج المحلي من الغاز، وتعزيز أنشطة البحث والاستكشاف بالشراكة مع كبرى الشركات العالمية، بما يدعم مكانة مصر كمركز إقليمي للطاقة.

فالاريس دي إس 12 تصل إلى مصر إيذانًا بانطلاق حفر 4 آبار غاز جديدة بالبحر المتوسط

وصلت سفينة الحفر «فالاريس دي إس ١٢» إلى المياه الإقليمية المصرية، إيذانًا ببدء مرحلة جديدة من أنشطة حفر آبار الغاز في البحر المتوسط، ضمن برنامج يستهدف حفر ٤ آبار جديدة لصالح شركتي «بي بي» البريطانية و«أركيوس إنرجي».

ومن المقرر أن تبدأ السفينة بحفر بئر إنتاجية وآخري استكشافية لصالح شركة «بي بي»، على أن يعقب ذلك حفر بئرين استكشافيتين لصالح «أركيوس إنرجي» الكيان المشترك بين «بي بي» و«أدنوك» الإماراتية.

وتعكس هذه الخطوة تنامي ثقة شركاء الاستثمار من كبرى الشركات العالمية في مناخ الاستثمار بقطاع البترول المصري، في ضوء الإجراءات التحفيزية التي نفذتها وزارة البترول والثروة المعدنية، بما يدعم خطط التوسع في أعمال البحث والاستكشاف وتنمية وإنتاج الغاز.

وتتبنى وزارة البترول والثروة المعدنية، بالتعاون مع شركاء الاستثمار، خطة طموح خلال عام ٢٠٢٦ تستهدف حفر أكثر من ١٠٠ بئر استكشافية، إلى جانب آبار تنمية الحقول القائمة، بما يسهم في تعظيم الاستفادة من موارد البترول والغاز، والوصول إلى اكتشافات جديدة تدعم القدرات الإنتاجية لمصر.

وتُعد أنشطة الاستكشاف الجديدة حجر الزاوية لتحقيق زيادة تدريجية ومستدامة في الإنتاج المحلي، بما يمهد لإحداث نقلة نوعية خلال السنوات الخمس المقبلة.

القابضة للبتروكيماويات تعتمد موازنة 2026–2027 وتستثمر 11 مليار دولار في 10 مشروعات جديدة حتى 2030

ترأس المهندس كريم بدوي، وزير البترول والثروة المعدنية، اجتماع الجمعية العامة للشركة المصرية القابضة للبتروكيماويات لاعتماد الموازنة التخطيطية للعام المالي ٢٠٢٦–٢٠٢٧، بحضور قيادات القطاع.

١٠ مشروعات استراتيجية بطاقة ٧,٥ مليون طن

استعرض الكيميائي علاء عبد الفتاح، رئيس الشركة المصرية القابضة للبتروكيماويات، الخطة الخمسية ٢٠٢٦–٢٠٣٠، التي تتضمن تنفيذ ١٠ مشروعات جديدة لإنتاج أكثر من ٢٠ منتجًا بتروكيماويًا، بطاقة إجمالية تصل إلى ٧,٥ مليون طن سنويًا، واستثمارات تقدر بنحو ١١ مليار دولار.

أبرز المشروعات الجديدة والتوسعات

- مشروع الصودا آش والسيليكون ومشتقاتهما في العلمين الجديدة.
- مشروع مشتقات الميثانول في دمياط.
- مشروع شركة الإسكندرية لسلاسل الإمداد لتوفير الإيثان ومشتقات الغاز.
- مشروعات إنتاج الستيرين، والبولي فينيل كلوريد، ووقود الطائرات المستدام في الإسكندرية.
- مشروعا الإيثانول الحيوي والأمونيا الخضراء في دمياط.

- تطوير مشروعات قائمة، منها شركة تكنولوجيا الأخشاب (ووتك)، وتوسعات شركات موبكو، وسيدي كرير للبتروكيماويات، والبترول والبتروكيماويات المصرية.

٤,٢ مليون طن إنتاج ٢٠٢٥ والتصدير لأكثر من ٥٠ دولة

بلغ إجمالي إنتاج قطاع البتروكيماويات في مصر نحو ٤,٢ مليون طن خلال عام ٢٠٢٥، مع تصدير المنتجات إلى أكثر من ٥٠ دولة حول العالم، مما يعكس تنامي قدرات القطاع ودوره في دعم الاقتصاد الوطني.

جنوب الوادي للبترول تعتمد موازنة 2026–2027 باستثمارات 33 مليون دولار وحفر 5 آبار استكشافية

اعتمد المهندس كريم بدوي، وزير البترول والثروة المعدنية، الموازنة الاستثمارية لشركة جنوب الوادي المصرية القابضة للبترول للعام المالي ٢٠٢٦–٢٠٢٧، خلال اجتماع الجمعية العامة العادية للشركة، بحضور المحافظين وقيادات القطاع.

وتستهدف الشركة تحقيق إيرادات تتجاوز ٤ مليارات جنيه، وصافي أرباح يزيد على مليار جنيه، مع مواصلة جهود البحث والاستكشاف عبر خطة طموحة تشمل حفر ٥ آبار استكشافية باستثمارات تقدر بنحو ٣٣ مليون دولار.

مسح زلزالي على مساحة ١٠٠ ألف كم^2 وعرض النتائج في إيجبس ٢٠٢٦

يواصل قطاع البترول تنفيذ أكبر مشروع للمسح السيزمي ثنائي الأبعاد في مناطق غرب النيل وجنوب الصحراء الغربية، على مساحة تقارب ١٠٠ ألف كيلومتر مربع، تمهيدًا لطرح هذه المناطق البكر للاستثمار لأول مرة. وأعلن الوزير الانتهاء من أعمال المسح في المنطقة (B) غرب أسيوط على مساحة ١٥ ألف كيلومتر مربع، على أن تُعرض النتائج النهائية أمام المستثمرين خلال مؤتمر مصر الدولي للطاقة (إيجبس ٢٠٢٦).

مزايدة عالمية للبحر الأحمر تجذب كبرى الشركات

كشف المهندس أشرف بهاء، رئيس شركة جنوب الوادي المصرية القابضة للبترول، عن المزايدة العالمية للبحث عن البترول والغاز في البحر الأحمر التي أُعلنت نوفمبر ٢٠٢٥، وتشمل ٤ قطاعات بمساحة إجمالية ٢٣،٤٥٠ كيلومترًا مربعًا، على أن يُغلق باب التقدم في مايو المقبل. وأشار إلى إبداء عدد من الشركات العالمية اهتمامها بالاستثمار، مما يعكس ثقة المستثمرين في قطاع البترول المصري، خاصة مع التزام الدولة بسداد مستحقات الشركاء الأجانب بانتظام.

١٦ فرصة استثمارية و٨ اتفاقيات سارية

تعمل الشركة حاليًا من خلال ٨ اتفاقيات للبحث عن البترول والغاز وإنتاجهما على مساحة ٣٧ ألف كيلومتر مربع، إلى جانب طرح ١٦ فرصة استثمارية عبر بوابة مصر للاستكشاف والإنتاج (EUGP). وأكد بهاء أن المسح السيزمي الجاري في مناطق غرب النيل وجنوب الصحراء سيفتح آفاقًا جديدة للاستثمار، مع بدء معالجة بيانات المنطقة (B) غرب أسيوط للحصول على مؤشرات أولية خلال مارس، واستعدادات لتنفيذ المسح في منطقة الداخلة.

مودرن جاس تطلق حزمة من البرامج التدريبية لتعزيز كفاءة العاملين وترسيخ ثقافة العمل التكاملي وتحقيق الأداء الآمن

قامت شركة مودرن جاس بإطلاق حزمة متكاملة من البرامج التدريبية والتوعوية، تشمل تدشين نواة لأكاديمية تدريبية متخصصة، وإطلاق برنامج تدريبي متقدم لتنمية المهارات والتوسع في برامج التوعية وحملات السلامة المهنية بجميع مواقع الشركة، وذلك في إطار خطة متوسطة المدى لمدة ثلاث سنوات ضمن استراتيجية شاملة للاستثمار في العنصر البشري ورفع كفاءة الأداء المؤسسي.

وهذه الخطوات تأتي ضمن استراتيجية وزارة البترول التي يتبناها معالي السيد المهندس كريم بدوي وزير البترول والثروة المعدنية لتنمية العنصر البشرى في كافة الأصعدة.

ومن أهم معالم المبادرة تحقيق الاكتفاء الذاتي في برامج التدريب والتنمية البشرية، وبناء كوادر قادرة على مواكبة متطلبات التطوير داخل قطاع البترول وصناعة الغاز الطبيعي.

فقامت الشركة تحت بعنوان «One Mission, One Team, One Goal»، بإطلاق برنامج يستهدف ترسيخ ثقافة العمل بروح الفريق الواحد، وتنمية مهارات الاتصال، والقيادة، وإدارة الوقت، وجودة التنفيذ، إلى جانب دعم التفكير الإبداعي، وتحسين كفاءة اتخاذ القرار، وتعزيز مشاركة العاملين في تحقيق أهداف الشركة المستقبلية.

كما أعلنت الشركة عن بدء تنفيذ حملات تدريب وتوعية في مجال السلامة والصحة المهنية بجميع مواقعها، حيث انطلقت الفعاليات بجميع المحافظات بهدف رفع الوعي بمخاطر الحوادث الوشيكة، والحد من الأوضاع والتصرفات غير الآمنة، وتشجيع الإبلاغ المبكر عن المخاطر، بما يضمن أعلى مستويات الأمان للعاملين ويحافظ على سلامة المنشآت.

وأكد رئيس الشركة أن هذه المبادرات تعكس التزام مودرن جاس بتبني سياسات مستدامة لتنمية الكفاءات، وترسيخ ثقافة «السلامة أولًا»، وخلق بيئة عمل أكثر فاعلية وتميزا وتحفيزا للعاملين، بما يتماشى مع توجهات وزارة البترول والثروة المعدنية في دعم التدريب والتأهيل ورفع كفاءة الأداء داخل القطاع.

حيث يمثل إطلاق الأكاديمية التدريبية المتخصصة بمدربين من أبناء الشركة نقلة نوعية في منظومة بناء القدرات داخل الشركة، حيث تسهم في تعظيم الاستفادة من الموارد البشرية والخبرات التراكمية لدى العاملين بأسلوب ومنهج علمي بالاستعانة بخبراء متخصصين في هذا المجال وبناء قاعدة معرفية متجددة تواكب التطورات التقنية والمهنية في صناعة الغاز الطبيعي.

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